



DDR-15-xxP



DDR-15-xxST



DDR-15-xxDR



## Features

- 150~1500Vdc 10:1 ultra-wide input range
- 4KVac I/O high isolation(Reinforced isolation)
- Protections: Short circuit / Overload / Over voltage /  
DC input under voltage / DC input reverse Polarity
- Fanless design, fully encapsulated, cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15 (DR-Type)
- -40~+80°C ultra-wide operating temperature (> +50°C derating)
- Operating altitude up to 5000 meters
- 3 years warranty

## Applications

- Photovoltaic power generation
- Renewable Energy System
- High voltage frequency conversion
- Industrial control system
- Semiconductor fabrication equipment
- Electro-mechanical apparatus
- DC bus centralized application
- Energy storage system(ESS)
- Charging pile
- Third rail

## GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

## Description

DDRH-15 series is a 150 ~ 1500Vdc high reliable ultra-high input DC-DC converter which can supply stable working voltage for the load. Main features are as following: compact size, -40~+80°C wide range operating temperature, 4KVac high isolation voltage, operation at 5000m altitude, low ripple & noise, complete protections and so on. Furthermore, this series also has DIN Rail type, it is suitable to be mounted on TS-35/7.5 or TS-35/15 rails. DDRH-15 is designed to meet UL1741(By requested) and IEC62109-1 standard. It is suitable for industrial automation, surveillance, telecommunication and can be widely deployed in the applications of new energy generation such as solar power, and windmill power generation, for instances, photovoltaic power systems, high voltage inverting , DC bus centralized application, ESS, charging pile, railway and so forth.

## Model Encoding

DDRH - 15 - 12 P

{ P : PCB mounting type  
 ST: Screw terminal type  
 DR: DIN rail type

Output voltage (5V/12V/15V/24V)

Rated wattage

Series name



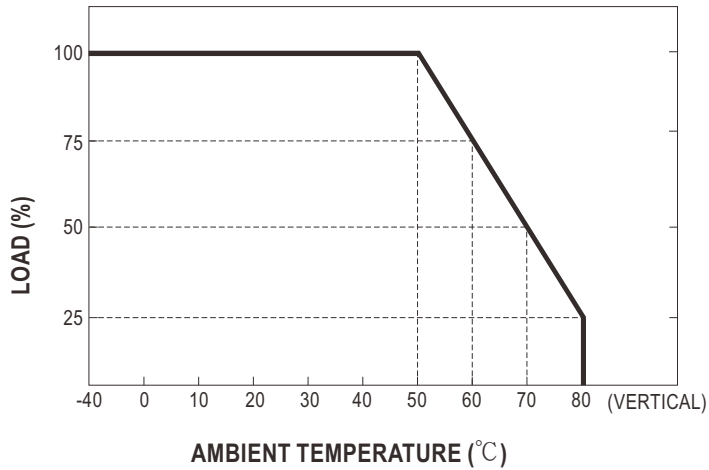
| MODEL SELECTION TABLE |                                 |               |           |                   |                   |                      |                          |
|-----------------------|---------------------------------|---------------|-----------|-------------------|-------------------|----------------------|--------------------------|
| ORDER NO.             | INPUT                           |               |           | OUTPUT            |                   | EFFICIENCY<br>(Typ.) | CAPACITOR LOAD<br>(MAX.) |
|                       | INPUT VOLTAGE<br>(RANGE)        | INPUT CURRENT |           | OUTPUT<br>VOLTAGE | OUTPUT<br>CURRENT |                      |                          |
|                       |                                 | NO LOAD       | FULL LOAD |                   |                   |                      |                          |
| DDRH-15-05 □          | Nominal 800Vdc<br>(150~1500Vdc) | 0.2mA         | 25mA      | 5V                | 2A                | 78%                  | 2000μF                   |
| DDRH-15-12 □          |                                 | 0.2mA         | 30mA      | 12V               | 1.25A             | 79%                  | 1250μF                   |
| DDRH-15-15 □          |                                 | 0.2mA         | 30mA      | 15V               | 1A                | 87%                  | 1000μF                   |
| DDRH-15-24 □          |                                 | 0.2mA         | 30mA      | 24V               | 0.625A            | 88%                  | 625μF                    |

□ = P, ST, DR



| SPECIFICATION             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                   |                                                                                                                    |                                                                                           |                                                    |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------|
| INPUT                     | VOLTAGE RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                   | 150 ~ 1500Vdc                                                                                                      |                                                                                           |                                                    |
|                           | FILTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                   | Pi type                                                                                                            |                                                                                           |                                                    |
|                           | EXTERNAL INPUT FUSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                   | 4A/1500Vdc, required (Please refer to page 6 for more details)                                                     |                                                                                           |                                                    |
|                           | INRUSH CURRENT (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                   | Cold start 150A max. @ Vin=800Vdc                                                                                  |                                                                                           |                                                    |
| OUTPUT                    | VOLTAGE ACCURACY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                   | ±2.0%                                                                                                              |                                                                                           |                                                    |
|                           | RATED POWER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                   | 5Vo: 10W      12Vo ~ 24Vo: 15W                                                                                     |                                                                                           |                                                    |
|                           | RIPPLE & NOISE      Note.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                   | 5 ~ 15Vo: 100mVp-p      24Vo: 150mVp-p                                                                             |                                                                                           |                                                    |
|                           | LINE REGULATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                   | ±1%                                                                                                                |                                                                                           |                                                    |
|                           | LOAD REGULATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                   | ±1% (10% Load to Full Load)                                                                                        |                                                                                           |                                                    |
|                           | SWITCHING FREQUENCY (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                   | 25 ~ 75.6KHz                                                                                                       |                                                                                           |                                                    |
|                           | HOLD UP TIME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                   | 16ms min. @Vin=800Vdc                                                                                              |                                                                                           |                                                    |
|                           | SETUP TIME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                   | 1s max.    @150~1500Vdc                                                                                            |                                                                                           |                                                    |
| PROTECTION                | SHORT CIRCUIT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                   | Protection type : Hiccup mode, continuous, automatic recovery                                                      |                                                                                           |                                                    |
|                           | OVERLOAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                   | 110 ~ 300% rated output power                                                                                      |                                                                                           |                                                    |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                   | Protection type : Hiccup mode, recovers automatically after fault condition is removed                             |                                                                                           |                                                    |
|                           | OVER VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                   | Hiccup mode, recovers automatically after fault condition is removed                                               |                                                                                           |                                                    |
|                           | DC INPUT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | REVERSE POLARITY                                                                                                                                  |                                                                                                                    | By internal Bridge Diode, no damage, recovers automatically after fault condition removed |                                                    |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | UNDER VOLTAGE LOCKOUT                                                                                                                             | Start-up voltage                                                                                                   |                                                                                           | 147Vdc                                             |
| Shutdown voltage          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                   | 137Vdc                                                                                                             |                                                                                           |                                                    |
| ENVIRONMENT               | WORKING TEMP.      Note.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                   | -40 ~ +80℃ (Refer to "Derating Curve")                                                                             |                                                                                           |                                                    |
|                           | WORKING HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                   | 20% ~ 90% RH non-condensing                                                                                        |                                                                                           |                                                    |
|                           | STORAGE TEMP., HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                   | -40 ~ +85℃, 10 ~ 95% RH non-condensing                                                                             |                                                                                           |                                                    |
|                           | TEMP. COEFFICIENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                   | ±0.02% / °C (0 ~ 50℃)                                                                                              |                                                                                           |                                                    |
|                           | VIBRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                   | Component: 10 ~ 500Hz, 3G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting clip: Compliance to IEC60068-2-6 |                                                                                           |                                                    |
|                           | OPERATING ALTITUDE      Note.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                   | 5000 meters                                                                                                        |                                                                                           |                                                    |
|                           | OVER VOLTAGE CATEGORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                   | II ; According to EN62109-1; altitude up to 5000 meters                                                            |                                                                                           |                                                    |
|                           | SAFETY STANDARDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                   | IEC62109-1(LVD), EAC TP TC 004 approved; Design refer to UL1741(By requested)                                      |                                                                                           |                                                    |
| SAFETY & EMC<br>( Note.5) | WITHSTAND VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                   | I/P-O/P:4KVac                                                                                                      |                                                                                           |                                                    |
|                           | ISOLATION RESISTANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                   | I/P-O/P, 100M Ohms / 500VDC / 25℃ / 70% RH                                                                         |                                                                                           |                                                    |
|                           | EMC EMISSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                   | Parameter                                                                                                          | Standard                                                                                  | Test Level / Note                                  |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                   | Conducted                                                                                                          | BS EN/EN55032                                                                             | Class A (with external components)                 |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                   | Radiated                                                                                                           | BS EN/EN55032                                                                             | Class A (with external components)                 |
|                           | EMC IMMUNITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                   | BS EN/EN55035                                                                                                      |                                                                                           |                                                    |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                   | Parameter                                                                                                          | Standard                                                                                  | Test Level / Note                                  |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                   | ESD                                                                                                                | BS EN/EN61000-4-2                                                                         | Level 3, 8KV air; Level 2, 4KV contact, criteria A |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                   | Radiated Susceptibility                                                                                            | BS EN/EN61000-4-3                                                                         | Level 3, 10V, criteria A                           |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                   | EFT/Burest                                                                                                         | BS EN/EN61000-4-4                                                                         | Level 2, 0.5KV, criteria A                         |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                   | Surge                                                                                                              | BS EN/EN61000-4-5                                                                         | Level 4, 2KV/Vin+ ~ Vin-, criteria A               |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                   | Conducted                                                                                                          | BS EN/EN61000-4-6                                                                         | Level 3, 10V, criteria A                           |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                   | MTBF                                                                                                               |                                                                                           | 388Khrs    MIL-HDBK-217F(25℃)                      |
| DIMENSION (L*W*H)         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | P Type: 76.2*50.8*25mm, ST Type: 122.3*57.3*32mm, DR Type: 122.3*57.3*43.5mm                                                                      |                                                                                                                    |                                                                                           |                                                    |
| CASE MATERIAL             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Non-conductive black plastic (UL 94V-0 rated)                                                                                                     |                                                                                                                    |                                                                                           |                                                    |
| POTTING MATERIAL          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | UL 94V-0                                                                                                                                          |                                                                                                                    |                                                                                           |                                                    |
| PIN MATERIAL              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Base: copper, Plating: Matte Tin                                                                                                                  |                                                                                                                    |                                                                                           |                                                    |
| PACKING                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | P Type   : 170g ; 6pcs/Tray, 18pcs/per carton<br>ST Type   : 210g ; 6pcs/Tray, 18pcs/per carton<br>DR Type   : 215g ; 6pcs/Tray, 18pcs/per carton |                                                                                                                    |                                                                                           |                                                    |
| NOTE                      | 1. All parameters NOT specially mentioned are measured at 800Vdc input, rated load and 25℃ of ambient temperature.<br>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf & 47µf parallel capacitor.<br>3. Derating may be needed under low input voltage. Please check the derating curve for more details.<br>4. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).<br>5. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."<br>(as available on <a href="http://www.meanwell.com">http://www.meanwell.com</a> )<br>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a> |                                                                                                                                                   |                                                                                                                    |                                                                                           |                                                    |

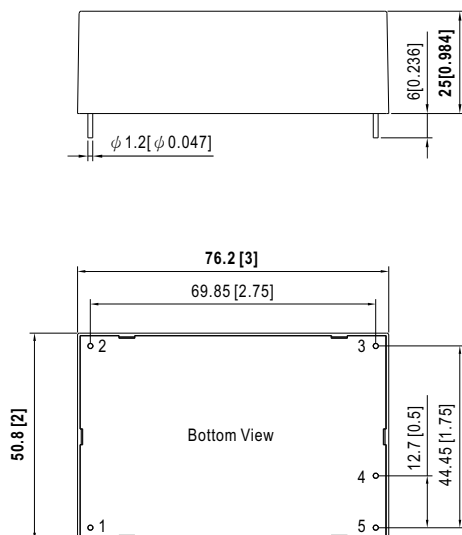
## Derating Curve



## Mechanical Specification

- All dimensions in mm(inch)
- Tolerance:  $x.xx \pm 0.03\text{mm}$  ( $x.x \pm 0.01"$ )  
 $x.xxx \pm 0.02\text{mm}$  ( $x.xx \pm 0.00078"$ )
- Pin size is:  $x.x \pm 0.7\text{mm}$  ( $x.x \pm 0.0275"$ )  
 $x.xx \pm 0.5\text{mm}$  ( $x.x \pm 0.0196"$ )

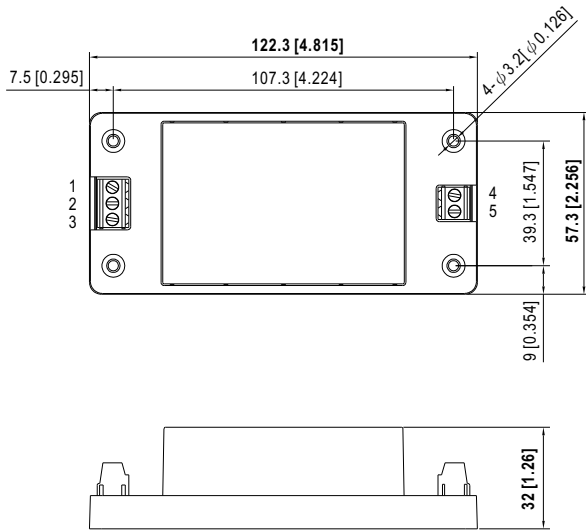
### DDRH-15-xxP (PCB Mounting Type)



## Plug Assignment

| Pin-Out |        |
|---------|--------|
| Pin No. | Output |
| 1       | -Vin   |
| 2       | +Vin   |
| 3       | NC     |
| 4       | -Vout  |
| 5       | +Vout  |

## DDRH-15-xxST (Screw Terminal Type)

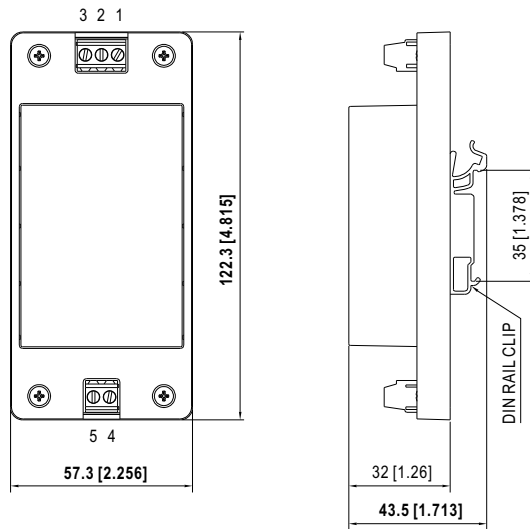


### Terminal Pin No. Assignment

| Pin-Out |        |             |
|---------|--------|-------------|
| Pin No. | Output | Mating wire |
| 1       | -Vin   | 12~24AWG    |
| 2       | NC     |             |
| 3       | +Vin   |             |
| 4       | +Vout  |             |
| 5       | -Vout  |             |

Note: Recommended torque setting for terminal is 5kgf-cm(4.4 Lb-in)

## DDRH-15-xxDR (DIN Rail Type)

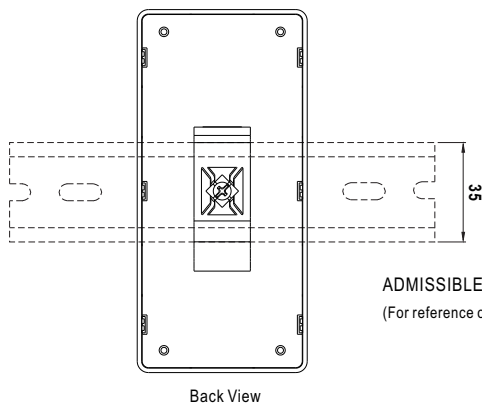


### Terminal Pin No. Assignment

| Pin-Out |        |             |
|---------|--------|-------------|
| Pin No. | Output | Mating wire |
| 1       | -Vin   | 12~24AWG    |
| 2       | NC     |             |
| 3       | +Vin   |             |
| 4       | +Vout  |             |
| 5       | -Vout  |             |

Note: Recommended torque setting for terminal is 5kgf-cm(4.4 Lb-in)

### Installation Instruction(DDRH-15-xxDR only)

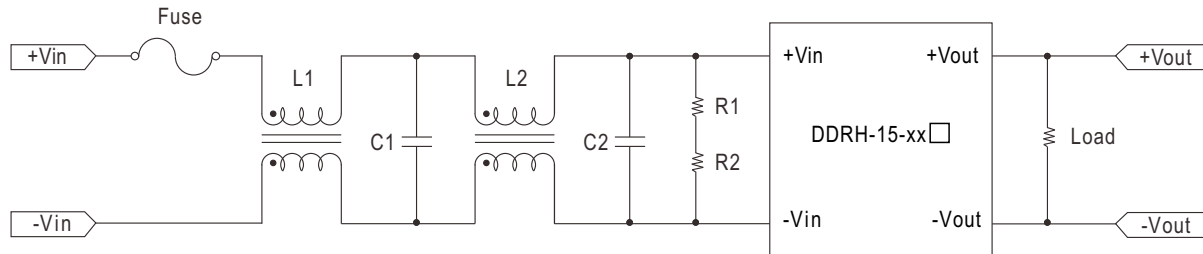


ADMISSIBLE DIN-RAIL: TS35/7.5 or TS35/15  
(For reference only. Not included with unit.)

Back View

## EMC Suggestion Circuit

※EMI test standard: BS EN/EN55032 Class A conducted and radiated emission are as below:



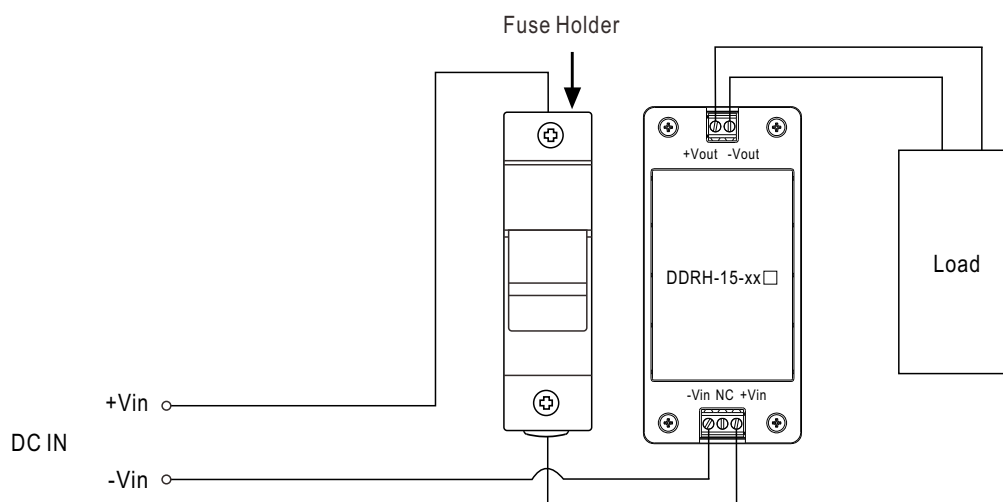
| Model No.    | BS EN/EN55032 Class A |                             |                |                |
|--------------|-----------------------|-----------------------------|----------------|----------------|
|              | Fuse                  | L1,L2                       | C1,C2          | R1,R2          |
| DDRH-15-xxP  | 4A/1500Vdc            | Common choke<br>25mH SQ1212 | 0.33μF/1500Vdc | 1/2W 3M, ≥800V |
| DDRH-15-xxST |                       |                             |                |                |
| DDRH-15-xxDR |                       |                             |                |                |

## External Fuse Wiring Instruction

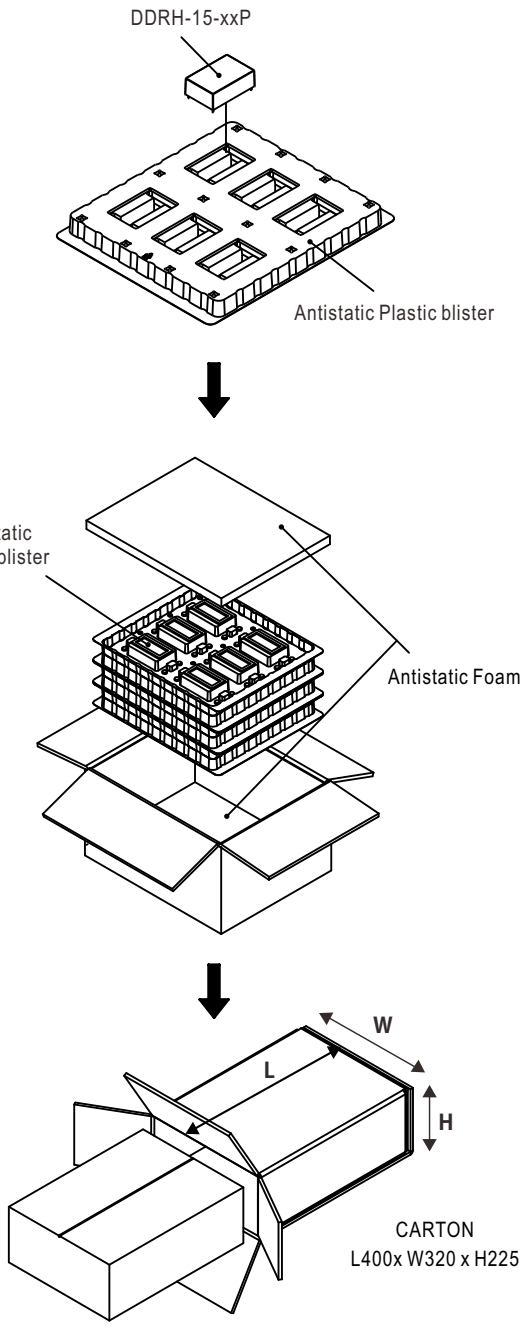
External FUSE is required.FUSE specification:4A/1500Vdc.

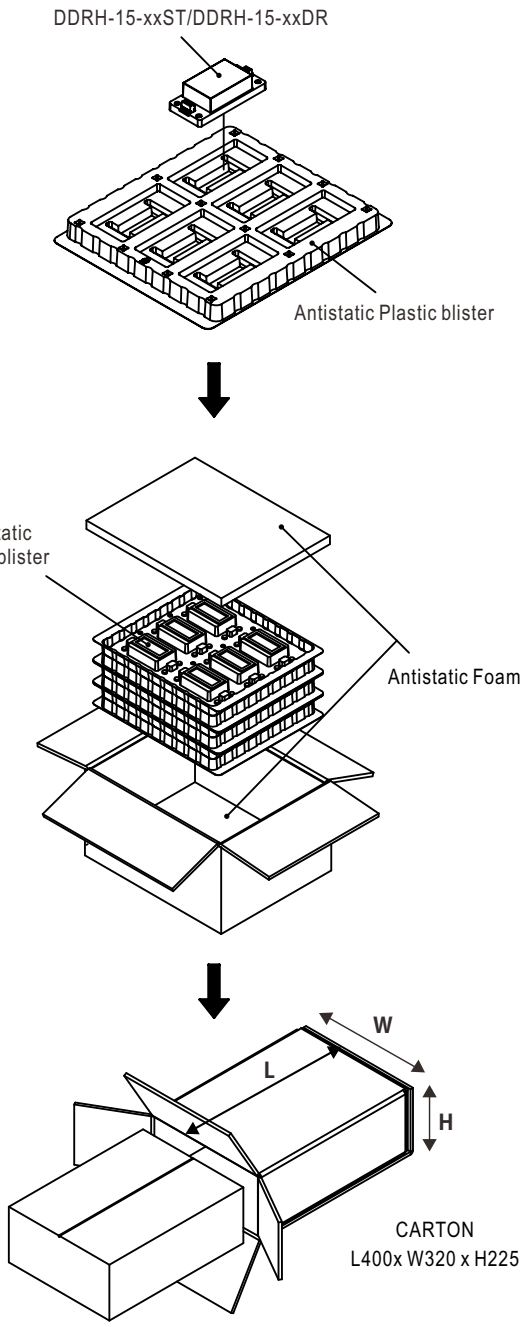
Suggested model:

| Fuse Brand | Manufacturer Part NO. |             | MW's Order NO.                |
|------------|-----------------------|-------------|-------------------------------|
|            | Fuse                  | Fuse Holder | Fuse + Fuse Holder            |
| WalterFuse | WJ30-4                | WJ30-H      | <a href="#">WJ30-4_WJ30-H</a> |



**Packing**

| Standard Packing                                                                                                                                                                                                                                      | DDRH-15-xxP          |                  |                           |                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------|---------------------------|--------------------|
|                                                                                                                                                                                                                                                       | MPQ<br>Per Tray(PCS) | One Tray<br>G.W. | Max. Q'TY/<br>Carton(PCS) | One Carton<br>G.W. |
| Unit : mm<br><br> <p>DDRH-15-xxP</p> <p>Antistatic Plastic blister</p> <p>Antistatic Plastic blister</p> <p>Antistatic Foam</p> <p>CARTON<br/>L400x W320 x H225</p> | 6                    | 1.2Kg            | 18                        | 4.6Kg              |

| Standard Packing                                                                                                                                                                                                                                                    | DDRH-15-xxST         |                  |                           |                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------|---------------------------|--------------------|
|                                                                                                                                                                                                                                                                     | MPQ<br>Per Tray(PCS) | One Tray<br>G.W. | Max. Q'TY/<br>Carton(PCS) | One Carton<br>G.W. |
| <p>Unit : mm</p> <p>DDRH-15-xxST/DDRH-15-xxDR</p>  <p>Antistatic Plastic blister</p> <p>Antistatic Plastic blister</p> <p>Antistatic Foam</p> <p>CARTON<br/>L400x W320 x H225</p> | 6                    | 1.43Kg           | 18                        | 5.3Kg              |
|                                                                                                                                                                                                                                                                     | DDRH-15-xxDR         |                  |                           |                    |
|                                                                                                                                                                                                                                                                     | MPQ<br>Per Tray(PCS) | One Tray<br>G.W. | Max. Q'TY/<br>Carton(PCS) | One Carton<br>G.W. |
|                                                                                                                                                                                                                                                                     | 6                    | 1.46Kg           | 18                        | 5.4Kg              |

## ■ Installation Manual

Please refer to : <http://www.meanwell.com/manual.html>