



Energy Verified
Rendement
Énergétique Vérifié



■ Features

• Global certificates

- Universal AC input / Full range
- 2 pole USA plug, Class II power unit
- No load power consumption < 0.075W

• Energy efficiency Level VI

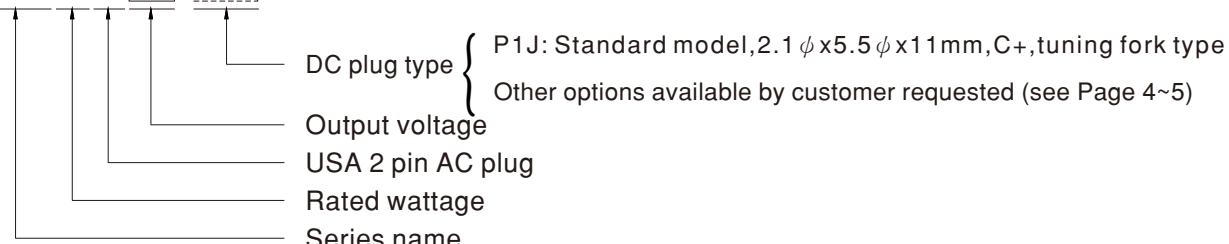
- Comply with EISA 2007/DoE and NRCan
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- Pass LPS
- -30~+70°C wide range working temperature
- LED indicator for power on
- Various DC plug quick adapter accessory available
(Plug kit sold separately, please refer to : https://www.meanwell.com/upload/pdf/DC_plug.pdf)
- 3 years warranty

■ Description

GST18U is a highly reliable, 18W wall-mounted style single-output green adaptor series. This product is a class II power unit (no FG), equipped with a 2-Pin standard USA AC power plug, adopting the input range from 85VAC to 264VAC. The entire series supplies different models with output voltages ranging between 5VDC and 48VDC that can satisfy the demands for various types of consumer electronic devices. With the efficiency up to 89% and the extremely low no-load power consumption below 0.075W, GST18U is compliant with USA EISA 2007/DoE and Canada NRCan. The supreme feature allows the adaptor to save the energy when it is either under the operating mode or the standby mode. The entire series utilizes the 94V-0 flame retardant plastic case, providing the double insulation that effectively prevents electrical shock. GST18U is certified for the international safety regulations.

■ Model Encoding

GST 18 U 05 -P1J

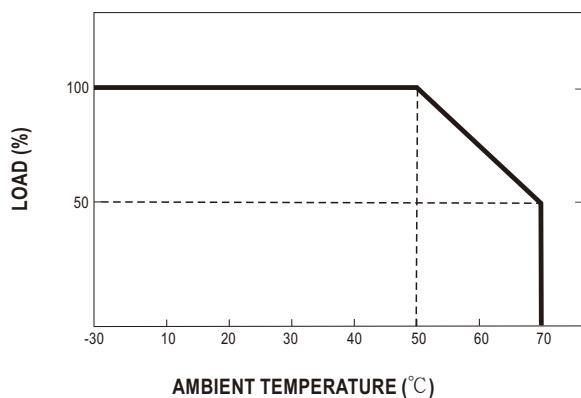




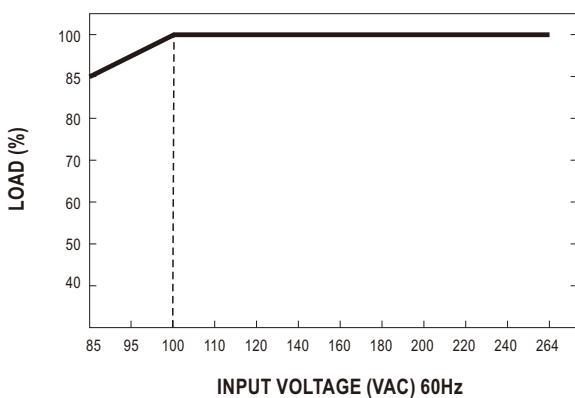
SPECIFICATION

ORDER NO.		GST18U05-P1J	GST18U07-P1J	GST18U09-P1J	GST18U12-P1J	GST18U15-P1J	GST18U18-P1J	GST18U24-P1J	GST18U28-P1J	GST18U48-P1J																			
OUTPUT	SAFETY MODEL NO.	GST18U05	GST18U07	GST18U09	GST18U12	GST18U15	GST18U18	GST18U24	GST18U28	GST18U48																			
	DC VOLTAGE Note.2	5V	7.5V	9V	12V	15V	18V	24V	28V	48V																			
	RATED CURRENT	3.0A	2.0A	2.0A	1.50A	1.20A	1.0A	0.75A	0.64A	0.375A																			
	CURRENT RANGE	0 ~ 3.0A	0 ~ 2.0A	0 ~ 2.0A	0 ~ 1.50A	0 ~ 1.20A	0 ~ 1.0A	0 ~ 0.75A	0 ~ 0.64A	0 ~ 0.375A																			
	RATED POWER (max.)	15W	15W	18W	18W	18W	18W	18W	18W	18W																			
	ripple & noise (max.) Note.3	80mVp-p	80mVp-p	80mVp-p	80mVp-p	100mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p																			
	VOLTAGE TOLERANCE Note.4	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%																			
	LINE REGULATION Note.5	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%																			
	LOAD REGULATION Note.6	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%																			
SETUP, RISE, HOLD UP TIME		1000ms, 30ms, 50ms/230VAC		1500ms, 30ms, 15ms/115VAC at full load																									
INPUT	VOLTAGE RANGE Note.7	85 ~ 264VAC																											
	FREQUENCY RANGE	47 ~ 63Hz																											
	EFFICIENCY (Typ.)	81%	85%	85%	86%	87%	88%	88%	88.5%	89%																			
	AC CURRENT	0.5A / 115VAC	0.3A / 230VAC																										
	INRUSH CURRENT (max.)	Cold start 35A / 115VAC		65A / 230VAC																									
PROTECTION	OVERLOAD	110 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed																											
	OVER VOLTAGE	110 ~ 140% rated output voltage Protection type : Clamp by zener diode, output short																											
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")																											
	WORKING HUMIDITY	20% ~ 90% RH non-condensing																											
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing																											
	TEMP. COEFFICIENT	±0.03% / °C (0 ~ 50°C)																											
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes																											
SAFETY & EMC (Note.8)	SAFETY STANDARDS	UL62368-1, CSA C22.2 No.62368-1, BSMI CNS14336-1, EAC TP TC 004 approved																											
	WITHSTAND VOLTAGE	I/P-O/P:4242VDC																											
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH																											
	EMC EMISSION	Parameter	Standard				Test Level / Note																						
		Conducted emission	FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B) CNS13438, EAC TP TC 020				Class B																						
		Radiated emission	FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B) CNS13438, EAC TP TC 020				Class B																						
OTHERS	MTBF	500Khrs min. MIL-HDBK-217F(25°C)																											
	DIMENSION	79*54*33mm (L*W*H)																											
	PACKING	198g; 60pcs/12.9Kg/1.15CUFT																											
CONNECTOR	PLUG	See page 4~5 ; Other type available by customer requested																											
	CABLE	See page 4~5 ; Other type available by customer requested																											
NOTE	1. All parameters are specified at 115VAC input, rated load, 25°C 70% RH ambient. 2. DC voltage: The output voltage set at point measure by plug terminal & 50% load. 3. Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1μf & 47μf capacitor. 4. Tolerance: includes set up tolerance, line regulation, load regulation. 5. Line regulation is measured from low line to high line at rated load. 6. Load regulation is measured from 10% to 100% rated load. 7. Derating may be needed under low input voltage. Please check the derating curve for more details. 8. The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)																												
	※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx																												

■ Derating Curve

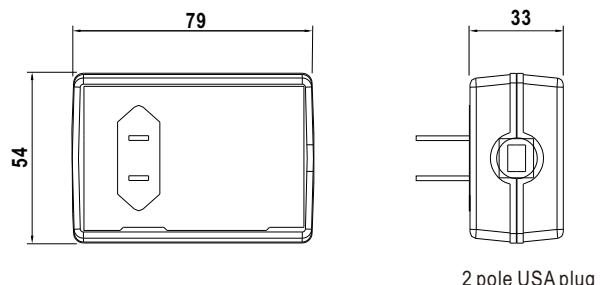
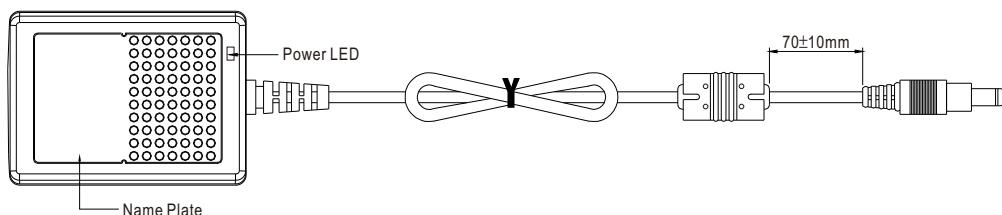
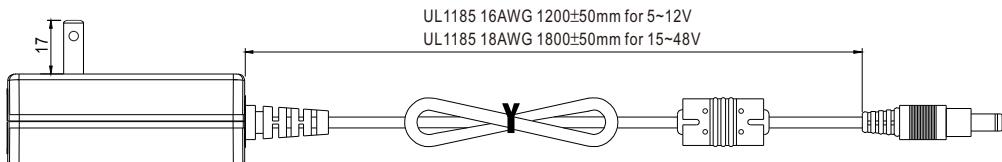


■ Static Characteristics



■ Mechanical Specification

Unit:mm



■ DC output plug

- ◎ Standard plug: P1J

P1J	Pin Assignment
	
5.5 2.1	Outside  Inside

- ◎ DC plug changeable through:

(1) Customization of the standard part with an optional DC plug according to the table (MOQ applicable)

(2) Quick adapter accessory (sold separately without MOQ)

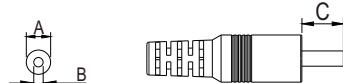
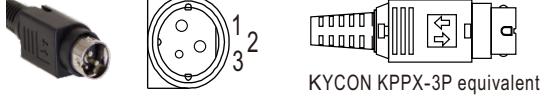
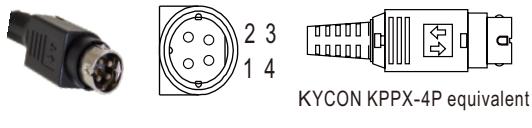
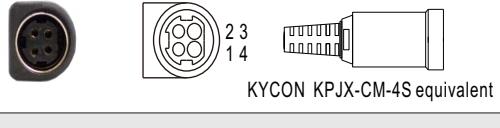
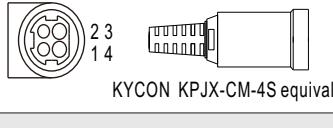
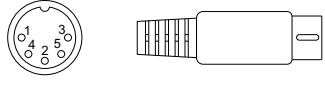
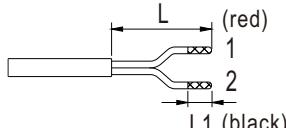
Please refer to below table and online selection guide : https://www.meanwell.com/upload/pdf/DC_plug.pdf

Example quick adapter accessory:



- ◎ Optional DC plug: (Available in customized cable or quick adapter)

Tuning Fork Style	Type No.	A	B	C	Quick Adapter Accessory
		OD	ID	L	
 	P1I	5.5	2.1	9.5	Available (Current rating: 7.5A max.)
	P1L	5.5	2.5	9.5	
	P1M	5.5	2.5	11.0	
	P1IR	5.5	2.1	9.5	
	P1JR	5.5	2.1	11.0	
	P1LR	5.5	2.5	9.5	
	P1MR	5.5	2.5	11.0	
 	Type No.	A	B	C	None
		OD	ID	L	
	P2I	5.5	2.1	9.5	
	P2J	5.5	2.1	11.0	
	P2L	5.5	2.5	9.5	
	P2M	5.5	2.5	11.0	
	P2IR	5.5	2.1	9.5	
	P2JR	5.5	2.1	11.0	
 	Type No.	A	B	C	None
		OD	ID	L	
	P2S(S761K)	5.53	2.03	12.06	
	P2K(761K)	5.53	2.54	12.06	
	P2C(S760K)	5.53	2.03	9.52	
	P2D(760K)	5.53	2.54	9.52	

Min. Pin Style	Type No.	A	B	C	Quick Adapter Accessory	
		OD	ID	L		
  EIAJ equivalent	P3A	2.35	0.7	11.0	Available (Current rating: 5A max.)	
	P3B	4.0	1.7	11.0		
	P3C	4.75	1.7	11.0		
  EIAJ equivalent	Type No.	A	B	C	Available (Current rating: 7.5A max.)	
	P4A	OD	ID	L		
		5.5	3.4	11.0		
  KYCON KPPX-3P equivalent	Type No.	Pin Assignment			Available (Current rating: 7.5A max.)	
	R6B	PIN No.	Output			
		1	+Vo			
  KYCON KPPX-4P equivalent	Type No.	Pin Assignment			Available (Current rating: 7.5A max.)	
	R7B	PIN No.	Output			
		1	+Vo			
  KYCON KPJX-CM-4S equivalent	Type No.	Pin Assignment			None	
	R7BF	PIN No.	Output			
		1	+Vo			
 	Type No.	Pin Assignment			Available (Current rating: 7.5A max.)	
	R1B	PIN No.	Output			
		1	-Vo			
  Length of Land L1 (red) L (black)	Type No.	Pin Assignment			None	
	by customer	PIN No.	Output			
		1	+Vo			
Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>5</u> mm)		2	-Vo			

■ Installation Manual

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