



Energy Verified
Rendement
Énergétique Vérifié



BS EN/EN62368-1 MS IEC60950-1 IEC62368-1 (optional) TPTC004

■ Features

• Global certificates

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

• Energy efficiency Level VI

- Comply with EU ErP and CoC Version 5
- 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

■ Applications

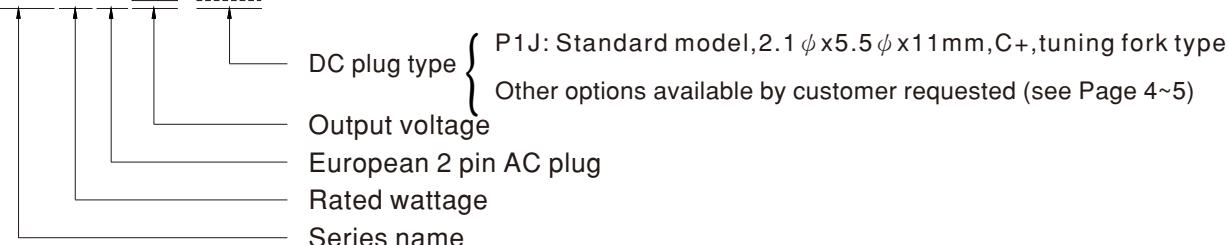
- Consumer electronic devices
- Telecommunication devices
- Office facilities
- Industrial equipments

■ Description

GST18E 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 European 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, GST18E is compliant with EU ErP, and Code of Conduct(CoC) Version 5. 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. GST18E is certified for the international safety regulations.

■ Model Encoding

GST 18 E 05 - P1J





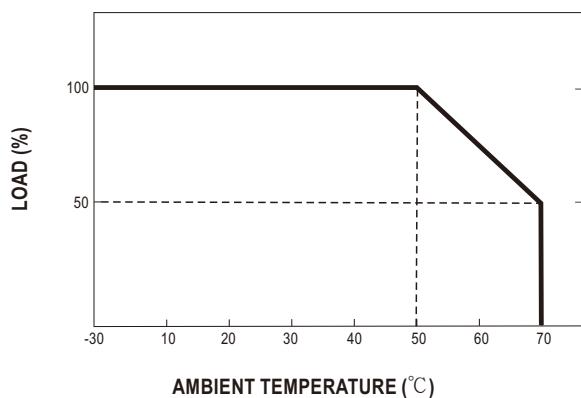
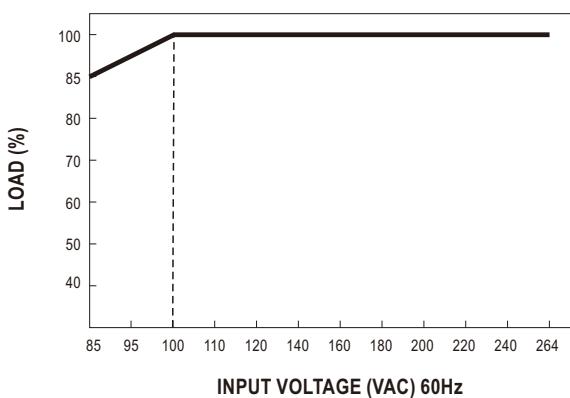
SPECIFICATION

ORDER NO.	GST18E05-P1J	GST18E07-P1J	GST18E09-P1J	GST18E12-P1J	GST18E15-P1J	GST18E18-P1J	GST18E24-P1J	GST18E28-P1J	GST18E48-P1J															
OUTPUT	SAFETY MODEL NO.	GST18E05	GST18E07	GST18E09	GST18E12	GST18E15	GST18E18	GST18E24	GST18E28	GST18E48														
	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														
	RIPLPE & 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%	±2.0%	±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%	±2.0%	±2.0%	±2.0%	±2.0%														
INPUT	SETUP, RISE, HOLD UP TIME	1000ms, 30ms, 50ms/230VAC		1500ms, 30ms, 15ms/115VAC at full load																				
	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																				
	LEAKAGE CURRENT(max.)	0.25mA / 240VAC																						
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. 9)	SAFETY STANDARDS Note. 8	TUV BS EN/EN62368-1, EAC TP TC 004 approved; SIRIM MS IEC60950-1 (optional) 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	BS EN/EN55032(CISPR32), EAC TP TC 020		Class B																			
		Radiated emission	BS EN/EN55032(CISPR32), EAC TP TC 020		Class B																			
		Harmonic current	BS EN/EN61000-3-2		Class A																			
	EMC IMMUNITY	Voltage flicker	BS EN/EN61000-3-3		-----																			
		Parameter	Standard		Test Level / Note																			
		ESD	BS EN/EN61000-4-2		Level 3, 8KV air, Level 2, 4KV contact																			
		RF field susceptibility	BS EN/EN61000-4-3		Level 2, 3V/m																			
		EFT bursts	BS EN/EN61000-4-4		Level 2, 1KV																			
		Surge susceptibility	BS EN/EN61000-4-5		Level 3, 1KV/Line-Line																			
		Conducted susceptibility	BS EN/EN61000-4-6		Level 2, 3V																			
		Magnetic field immunity	BS EN/EN61000-4-8		Level 2, 3A/m																			
OTHERS	Voltage dips , interruption	BS EN/EN61000-4-11		>95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods																				
	MTBF	500Khrs min. MIL-HDBK-217F(25°C)																						
	DIMENSION	79*54*33mm (L*W*H)																						
CONNECTOR	PACKING	202.5g; 60pcs/13.2Kg/1.15CUFT																						
	PLUG	See page 4~5 ; Other type available by customer requested																						
NOTE	CABLE	See page 4~5 ; Other type available by customer requested																						
	1.All parameters are specified at 230VAC 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 demand for Malaysia safety is processed with the order no. GST18E □ -SIRIM by request. Please contact MEAN WELL for details.																							
	9.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)																							

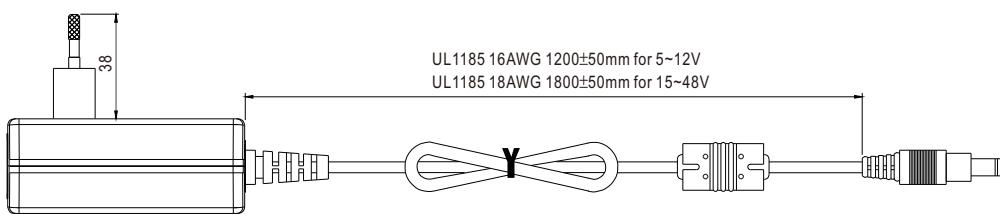
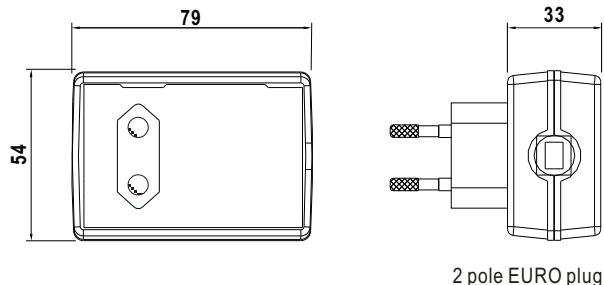
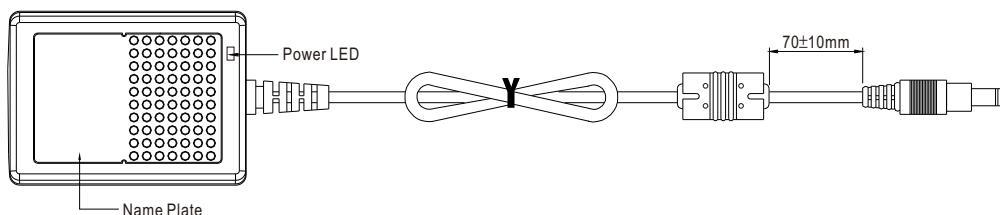


18WAC-DC Reliable Green Industrial Adaptor

GST18E series

■ Derating Curve**■ Static Characteristics****■ Mechanical Specification**

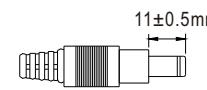
Unit:mm

UL1185 16AWG 1200±50mm for 5~12V
UL1185 18AWG 1800±50mm for 15~48V

2 pole EURO plug

■ DC output plug

- ◎ Standard plug: P1J

P1J	Pin Assignment
	
5.5 2.1  11±0.5mm 	Outside  Inside

- ◎ DC plug changeable through:

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

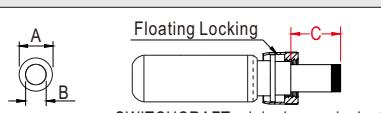
(2) Quick adapter accessory (sold separately without MOQ)

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

Example quick adapter accessory:



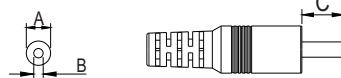
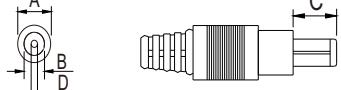
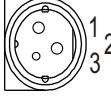
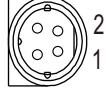
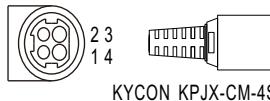
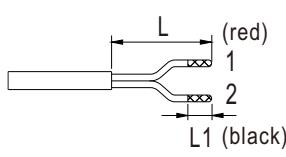
- ◎ Optional DC plug: (Available in customized cable or quick adapter)

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	
Barrel Style	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	
	P2LR	5.5	2.5	9.5	
Lock Style	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	
					



18WAC-DC Reliable Green Industrial Adaptor

GST18E series

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			
		2	-Vo			
		3	-Vo			
  KYCON KPJX-CM-4S equivalent	Type No.	Pin Assignment			None	
	R7BF	PIN No.	Output			
		1	+Vo			
		2	-Vo			
 	Type No.	Pin Assignment			Available (Current rating: 7.5A max.)	
	R1B	PIN No.	Output			
		1	-Vo			
		2	-Vo			
		3	+Vo			
  Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>5</u> mm)	Type No.	Pin Assignment			None	
	by customer	PIN No.	Output			
		1	+Vo			
		2	-Vo			

■ Installation Manual

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