

■ Features

- **Global certificates**
- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14, Class I power unit
- No load power consumption < 0.075W
- **Energy efficiency Level VI**
- Comply with EISA 2007/DoE, NRCan, Korea K-MEPS, AU/NZ MEPS, 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

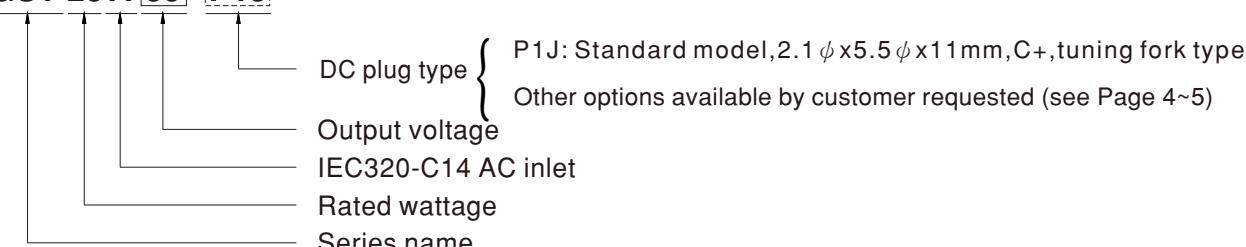
■ Description

GST25A is a highly reliable, 25W desktop style single-output green adaptor series. This product is a class I power unit (with FG), equipped with a standard IEC320-C14 AC inlet and 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, GST25A is compliant with USA EISA 2007/DoE, Canada NRCan, Australia and New Zealand MEPS, Korea K-MEPS, 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. GST25A is certified for the international safety regulations.

■ Model Encoding

GST 25 A 05 -P1J





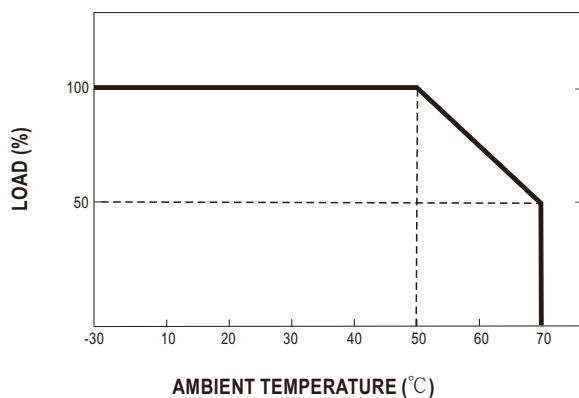
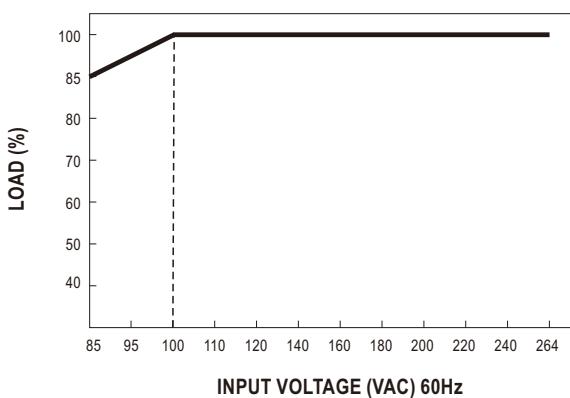
SPECIFICATION

ORDER NO.	GST25A05-P1J	GST25A07-P1J	GST25A09-P1J	GST25A12-P1J	GST25A15-P1J	GST25A18-P1J	GST25A24-P1J	GST25A28-P1J	GST25A48-P1J					
OUTPUT	SAFETY MODEL NO.	GST25A05	GST25A07	GST25A09	GST25A12	GST25A15	GST25A18	GST25A24	GST25A28	GST25A48				
	DC VOLTAGE Note.2	5V	7.5V	9V	12V	15V	18V	24V	28V	48V				
	RATED CURRENT	4.0A	2.93A	2.55A	2.08A	1.66A	1.38A	1.04A	0.89A	0.52A				
	CURRENT RANGE	0 ~ 4.0A	0 ~ 2.93A	0 ~ 2.55A	0 ~ 2.08A	0 ~ 1.66A	0 ~ 1.38A	0 ~ 1.04A	0 ~ 0.89A	0 ~ 0.52A				
	RATED POWER (max.)	20W	22W	23W	25W	25W	25W	25W	25W	25W				
	ripple & noise (max.) Note.3	80mVp-p	80mVp-p	80mVp-p	80mVp-p	100mVp-p	100mVp-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.)	81.5%	84.5%	85%	86.5%	87%	87%	88%	88%	89%				
	AC CURRENT	0.6A / 115VAC	0.35A / 230VAC											
	INRUSH CURRENT (max.)	Cold start 35A / 115VAC		65A / 230VAC										
PROTECTION	LEAKAGE CURRENT(max.)	0.75mA / 240VAC												
	OVERLOAD	110 ~ 150% rated output power												
	OVER VOLTAGE	Protection type : Hiccup mode, recovers automatically after fault condition is removed												
		110 ~ 140% rated output voltage												
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)												
SAFETY & EMC (Note. 9)	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes												
	SAFETY STANDARDS Note. 8	UL62368-1, CSA C22.2 No.62368-1, TUV BS EN/EN62368-1, BSMI CNS 14336-1 , CCC GB4943.1, PSE J62368-1, AS/NZS 60950.1, BIS IS13252, KC K60950-1, EAC TP TC 004 approved; SIRIM MS IEC62368-1 (optional) approved												
	WITHSTAND VOLTAGE	I/P-O/P:4242VDC, I/P-FG:2121VDC												
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG:100M Ohms / 500VDC / 25°C / 70% RH												
SAFETY & EMC (Note. 9)	EMC EMISSION	Parameter	Standard	Test Level / Note										
	Conducted emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 CAN ICES-3(B)/NMB-3(B),CNS13438,GB17625.1 EAC TP TC 020,MSIP KN32							Class B					
	Radiated emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 CAN ICES-3(B)/NMB-3(B),CNS13438,GB17625.1 EAC TP TC 020,MSIP KN32							Class B					
	Harmonic current	BS EN/EN61000-3-2,GB9254							Class A					
	Voltage flicker	BS EN/EN61000-3-3							-----					
CONNECTOR	EMC IMMUNITY	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 , 2KV/Line-FG					
	Conducted susceptibility	BS EN/EN61000-4-6							Level 2, 3V					
	Magnetic field immunity	BS EN/EN61000-4-8							Level 2, 3A/m					
	Voltage dips , interruption	BS EN/EN61000-4-11							>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods					
OTHERS	MTBF	674.55Khrs min. MIL-HDBK-217F(25°C)												
	DIMENSION	93*54*36mm (L*W*H)												
CONNECTOR	PACKING	209g; 60pcs/13.5Kg/1.02CUFT												
	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 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. GST25A □ -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) ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx													

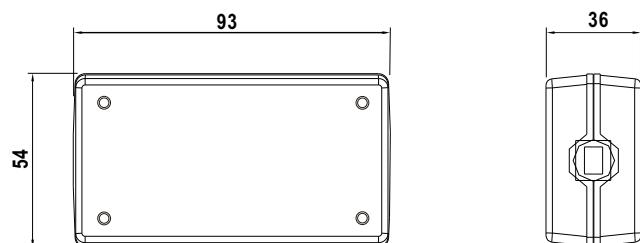
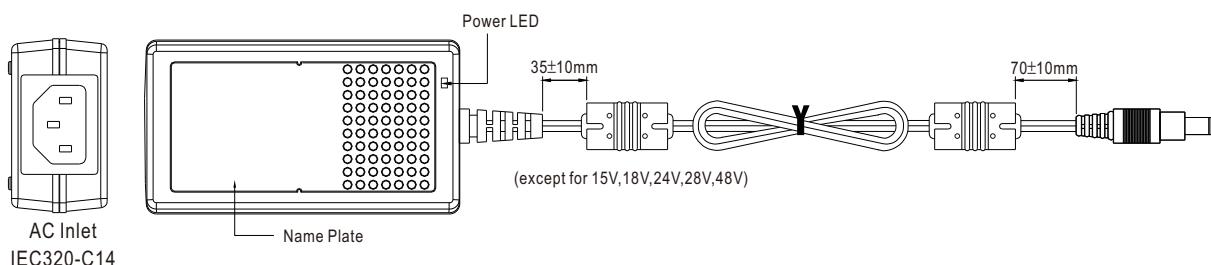
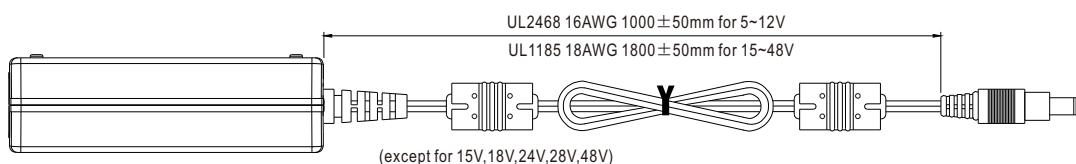


25W AC-DC Reliable Green Industrial Adaptor

GST25A series

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

Unit:mm



■ DC output plug

- ◎ Standard plug: P1J

P1J	Pin Assignment
 	 Outside  Inside <p> -V not connected to AC FG(standard) -V connected to AC FG(optional) </p>

- ◎ DC plug changeable through:

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

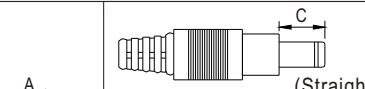
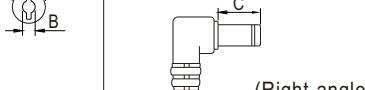
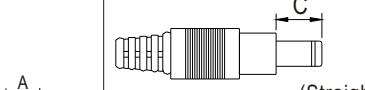
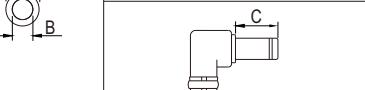
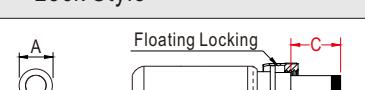
(2) Quick adapter accessory (sold separately without MOQ)

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

Example quick adapter accessory:



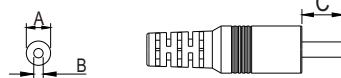
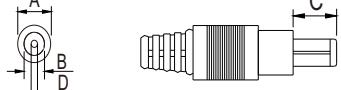
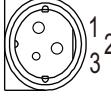
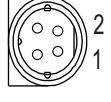
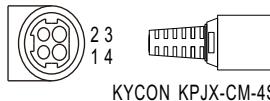
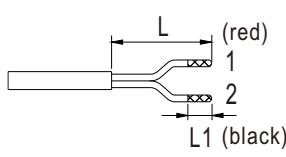
- ◎ Optional DC plug: (Available in customized cable or quick adapter)

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	



25WAC-DC Reliable Green Industrial Adaptor

GST25A 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>