TPTC004 UL60950-1 CNS14336 IEC60950-1

Energy Verified
Rendement
Énergétique Vérifié

ECO Household Automate Industrial Security Network Telecom

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℃ wide range working temperature
- LED indicator for power on
- 3 years warranty

Applications

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

Description

GST25U is a highly reliable, 25W 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, GST25U 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. GST25U is certified for the international safety regulations.

Model Encoding

GST 25 U 05 - P1J

- P1J: DC plug type — P1J: Standard model,2.1φx5.5φx11mm,C+,tuning fork type; Other options available by customer requested (see Page 4~5)
- 05: Output voltage
- U: USA 2 pin AC plug
- 25: Rated wattage
- GST: Series name

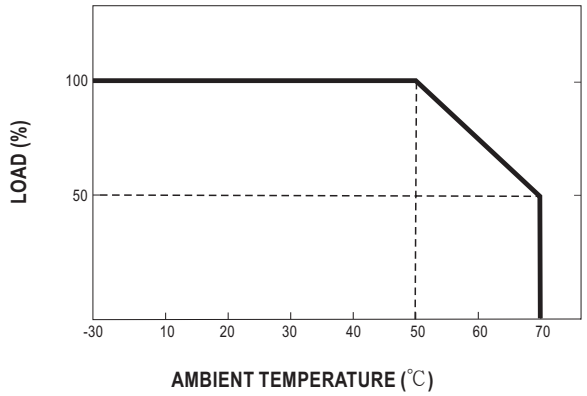
SPECIFICATION

ORDER NO.		GST25U05-P1J	GST25U07-P1J	GST25U09-P1J	GST25U12-P1J	GST25U15-P1J	GST25U18-P1J	GST25U24-P1J	GST25U28-P1J	GST25U48-P1J
OUTPUT	SAFETY MODEL NO.	GST25U05	GST25U07	GST25U09	GST25U12	GST25U15	GST25U18	GST25U24	GST25U28	GST25U48
	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								
	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								
ENVIRONMENT	WORKING TEMP.	-30 ~ +70℃ (Refer to "Derating Curve")								
	WORKING HUMIDITY	20% ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH non-condensing								
	TEMP. COEFFICIENT	±0.03% / ℃ (0 ~ 50℃)								
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
SAFETY & EMC (Note. 8)	SAFETY STANDARDS	UL60950-1, CSA C22.2, BSMI, CNS14336, EAC TP TC 004 approved								
	WITHSTAND VOLTAGE	I/P-O/P:4242VDC								
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25℃/ 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℃)								
	DIMENSION	79*54*33mm (L*W*H)								
	PACKING	198g; 60pcs/12.9Kg/1.22CUFT								
CONNECTOR	PLUG	See page 4~5 ; Other type available by customer requested								
	CABLE	See page 4~5 ; Other type available by customer requested								

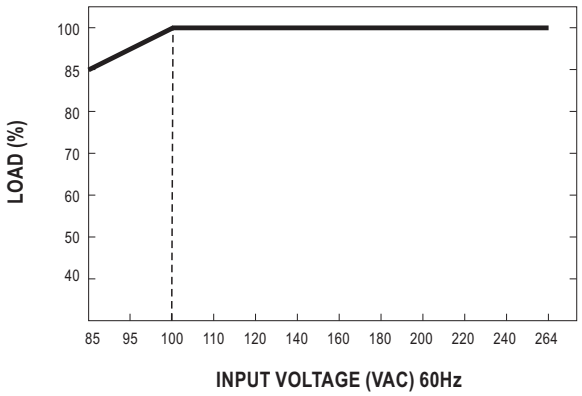
NOTE

1.All parameters are specified at 115VAC input, rated load, 25℃ 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)

■ Derating Curve

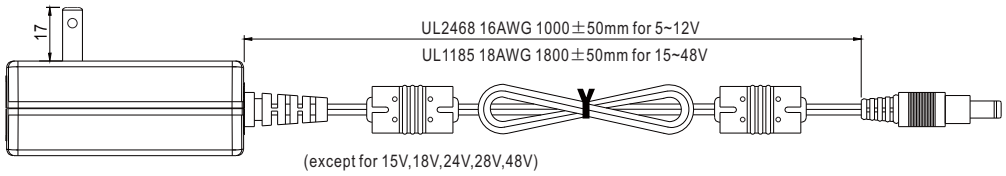


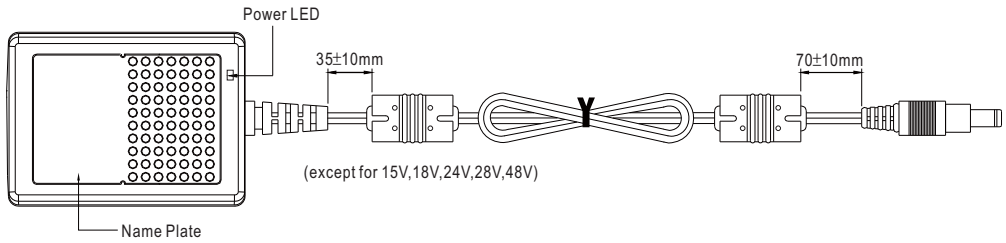
■ Static Characteristics

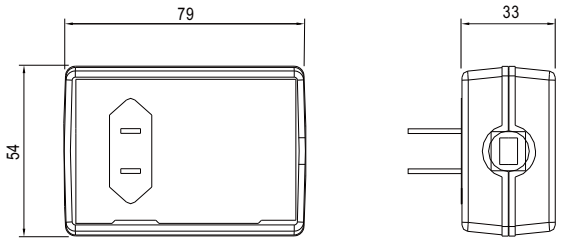


■ Mechanical Specification

Unit:mm



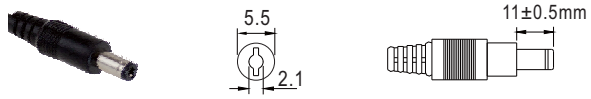
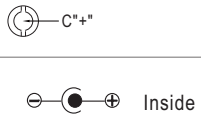




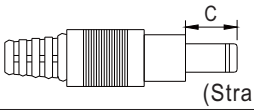
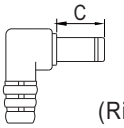
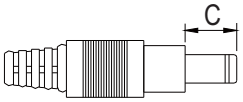
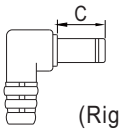
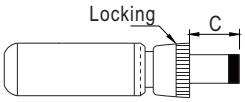
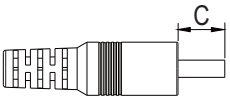
2 pole USA plug

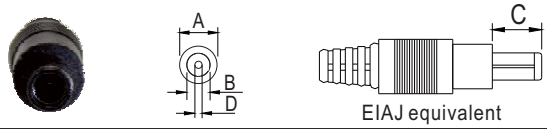
■ DC output plug

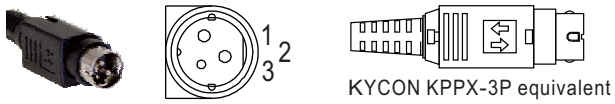
◎ Standard plug: P1J

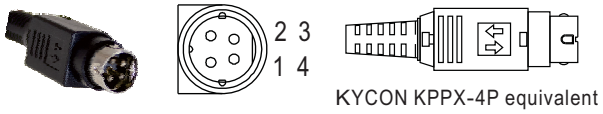
P1J	Pin Assignment
	

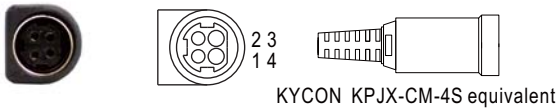
◎ Optional DC plug:

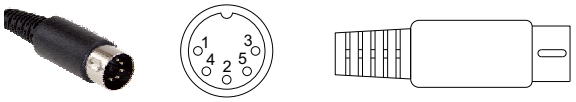
Tuning Fork Style		Type No.	A / OD	B / ID	C / L
	 (Straight)	P1I	5.5	2.1	9.5
		P1L	5.5	2.5	9.5
		P1M	5.5	2.5	11.0
	 (Right-angled)	P1IR	5.5	2.1	9.5
		P1JR	5.5	2.1	11.0
		P1LR	5.5	2.5	9.5
		P1MR	5.5	2.5	11.0
Barrel Style		Type No.	A / OD	B / ID	C / L
	 (Straight)	P2I	5.5	2.1	9.5
		P2J	5.5	2.1	11.0
		P2L	5.5	2.5	9.5
		P2M	5.5	2.5	11.0
	 (Right-angled)	P2IR	5.5	2.1	9.5
		P2JR	5.5	2.1	11.0
		P2LR	5.5	2.5	9.5
		P2MR	5.5	2.5	11.0
Lock Style		Type No.	A / OD	B / ID	C / L
	 SWITCHCRAFT original or equivalent	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 / OD	B / ID	C / L
	 EIAJ equivalent	P3A	2.35	0.7	11.0
		P3B	4.0	1.7	11.0
		P3C	4.75	1.7	11.0

Center Pin Style	Type No.	A OD	B ID	C L	D Center Pin
 EIAJ equivalent	P4A	5.5	3.4	11.0	1.0
	P4B	6.5	4.4	11.0	1.4
	P4C	7.4	5.1	11.0	0.6

Min. DIN 3 Pin with Lock (male)	Type No.	Pin Assignment	
		PIN No.	Output
 KYCON KPPX-3P equivalent	R6B	1	+Vo
		2	-Vo
		3	+Vo

Min. DIN 4 Pin with Lock (male)	Type No.	Pin Assignment	
		PIN No.	Output
 KYCON KPPX-4P equivalent	R7B	1	+Vo
		2	-Vo
		3	-Vo
		4	+Vo

Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment	
		PIN No.	Output
 KYCON KPJX-CM-4S equivalent	R7BF	1	+Vo
		2	-Vo
		3	-Vo
		4	+Vo

DIN 5 Pin (male)	Type No.	Pin Assignment	
		PIN No.	Output
	R1B	1	-Vo
		2	-Vo
		3	+Vo
		4	-Vo
		5	+Vo

Stripped and tinned leads	Type No.	Pin Assignment	
		PIN No.	Output
 Length of Land L1 by request (MW's standard length, L: 25 mm, L1: 5 mm)	by customer	1	+Vo
		2	-Vo

■ Installation Manual

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