



## ■ Features

- **Global certificates**
- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14
- No load power consumption < 0.075W
- **Energy efficiency Level VI**
- Comply with EISA 2007/DoE, NRCAN, AU/NZ MEPS, EU ErP and CoC Version 5
- Class I power (with earth pin)
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- Pass LPS
- High operating temperature up to +70°C
- LED indicator for power on
- 3 years warranty

## ■ Applications

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

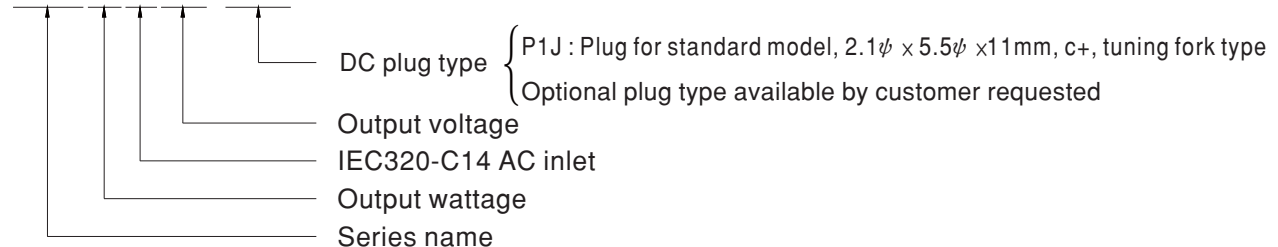
## ■ Description

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, 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**

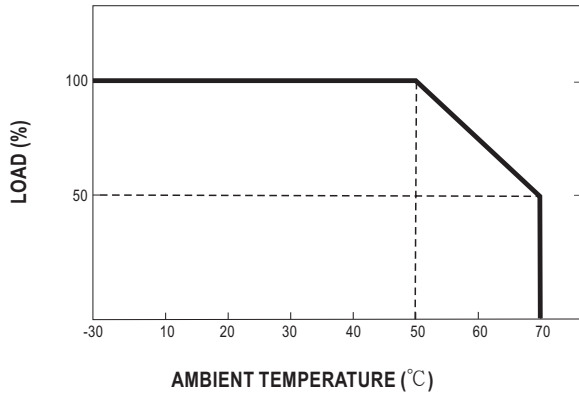




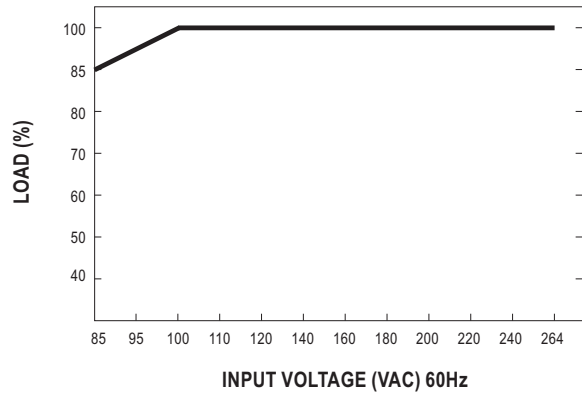
**SPECIFICATION**

ORDER NO.	GST25A05-P1J	GST25A07-P1J	GST25A09-P1J	GST25A12-P1J	GST25A15-P1J	GST25A18-P1J	GST25A24-P1J	GST25A28-P1J	GST25A48-P1J		
OUTPUT	<b>SAFETY MODEL NO.</b>	GST25A05	GST25A07	GST25A09	GST25A12	GST25A15	GST25A18	GST25A24	GST25A28	GST25A48	
	<b>DC VOLTAGE</b> Note.2	5V	7.5V	9V	12V	15V	18V	24V	28V	48V	
	<b>RATED CURRENT</b>	4.0A	2.93A	2.55A	2.08A	1.66A	1.38A	1.04A	0.89A	0.52A	
	<b>CURRENT RANGE</b>	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	
	<b>RATED POWER (max.)</b>	20W	22W	23W	25W	25W	25W	25W	25W	25W	
	<b>RIPPLE &amp; NOISE (max.)</b> Note.3	80mVp-p	80mVp-p	80mVp-p	80mVp-p	100mVp-p	150mVp-p	180mVp-p	240mVp-p	240mVp-p	
	<b>VOLTAGE TOLERANCE</b> Note.4	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%	
	<b>LINE REGULATION</b> Note.5	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	<b>LOAD REGULATION</b> Note.6	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%	
<b>SETUP, RISE, HOLD UP TIME</b>	1000ms, 30ms, 50ms/230VAC      1500ms, 30ms, 15ms/115VAC at full load										
INPUT	<b>VOLTAGE RANGE</b> Note.7	85 ~ 264VAC									
	<b>FREQUENCY RANGE</b>	47 ~ 63Hz									
	<b>EFFICIENCY (Typ.)</b>	81.5%	84.5%	85%	86.5%	87%	87%	88%	88%	89%	
	<b>AC CURRENT</b>	0.6A / 115VAC		0.35A / 230VAC							
	<b>INRUSH CURRENT (max.)</b>	35A / 115VAC		65A / 230VAC							
	<b>LEAKAGE CURRENT(max.)</b>	0.75mA / 240VAC									
PROTECTION	<b>OVERLOAD</b>	110 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed									
	<b>OVER VOLTAGE</b>	110 ~ 140% rated output voltage Protection type : Clamp by zener diode									
ENVIRONMENT	<b>WORKING TEMP.</b>	-30 ~ +70°C (Refer to "Derating Curve")									
	<b>WORKING HUMIDITY</b>	20% ~ 90% RH non-condensing									
	<b>STORAGE TEMP., HUMIDITY</b>	-40 ~ +85°C, 10 ~ 95% RH									
	<b>TEMP. COEFFICIENT</b>	±0.03% / °C (0 ~ 50°C)									
	<b>VIBRATION</b>	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes									
SAFETY & EMC (Note. 9)	<b>SAFETY STANDARDS</b> Note. 8	UL60950-1, CSA C22.2, TUV EN60950-1, BSMI CNS14336, CCC GB4943, PSE J60950-1, AS/NZS 60950.1, BIS IS13252, KC K60950-1, EAC TP TC 004 approved; SIRIM MS IEC60950-1 (optional) approved									
	<b>WITHSTAND VOLTAGE</b>	I/P-O/P:4242VDC, I/P-FG:2121VDC									
	<b>ISOLATION RESISTANCE</b>	I/P-O/P, I/P-FG:100M Ohms / 500VDC / 25°C / 70% RH									
	<b>EMC EMISSION</b>	Compliance to EN55022 class B, EN61000-3-2,3, FCC PART 15 / CISPR22 class B, CAN ICES-3(B)/NMB-3(B), CNS13438 class B, GB9254, GB17625.1, EAC TP TC 020, MSIP KN32									
	<b>EMC IMMUNITY</b>	Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A, MSIP KN35									
OTHERS	<b>MTBF</b>	674.55Khrs min. MIL-HDBK-217F(25°C)									
	<b>DIMENSION</b>	93*54*36mm (L*W*H)									
	<b>PACKING</b>	209g; 60pcs/13.5Kg/1.12CUFT									
CONNECTOR	<b>PLUG</b>	See page 3,4 ; Other type available by customer requested									
	<b>CABLE</b>	See page 3,4 ; Other type available by customer requested									
NOTE	<p>1.All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient.</p> <p>2.DC voltage: The output voltage set at point measure by plug terminal &amp; 50% load.</p> <p>3.Ripple &amp; noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf &amp; 47uf capacitor.</p> <p>4.Tolerance: includes set up tolerance, line regulation, load regulation.</p> <p>5.Line regulation is measured from low line to high line at rated load.</p> <p>6.Load regulation is measured from 10% to 100% rated load.</p> <p>7.Derating may be needed under low input voltage. Please check the derating curve for more details.</p> <p>8.The demand for Malaysia safety is processed with the order no. GST25A □ -SIRIM by request. Please contact MEAN WELL for details.</p> <p>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 <a href="http://www.meanwell.com">http://www.meanwell.com</a>)</p>										

### Derating Curve

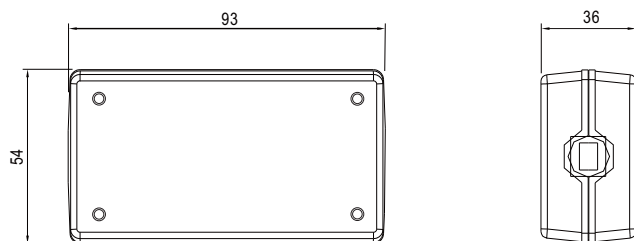
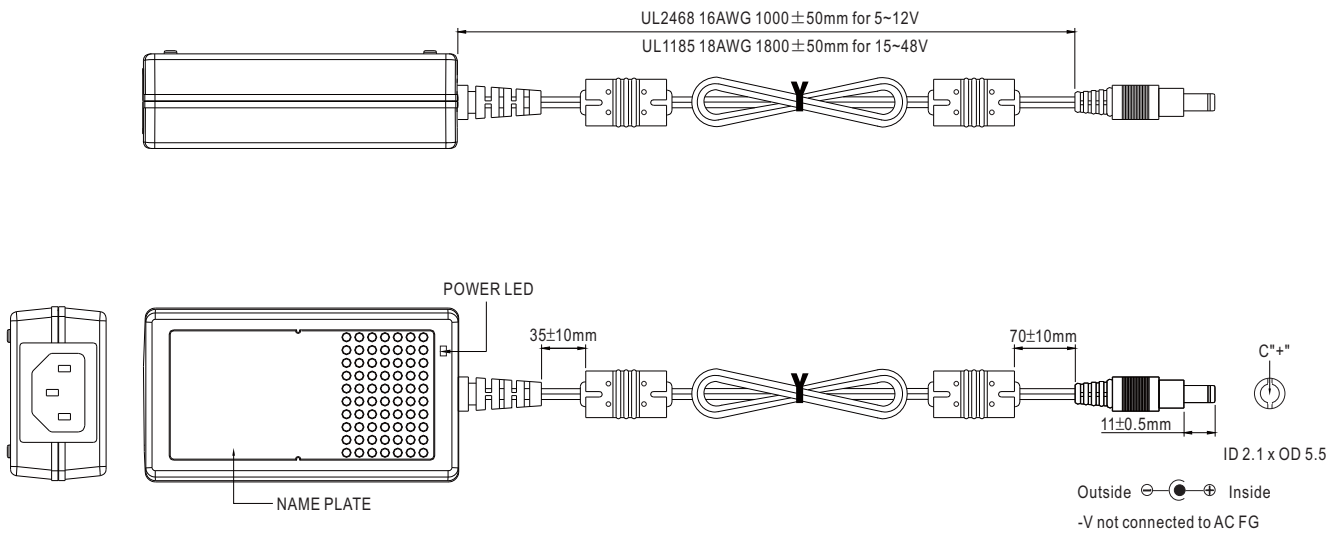


### Static Characteristics



### Mechanical Specification

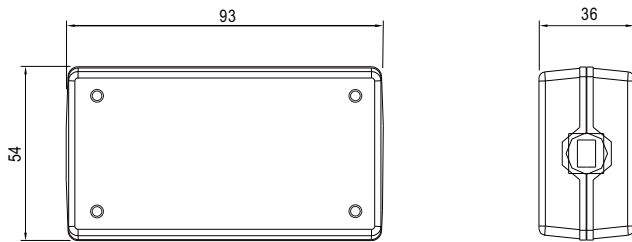
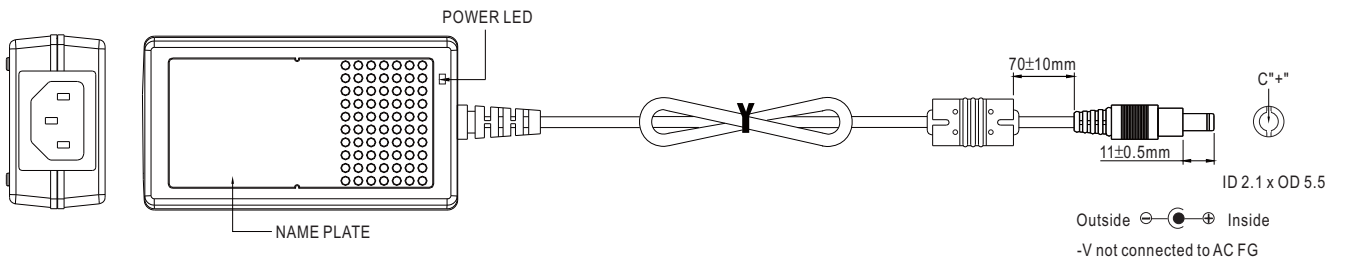
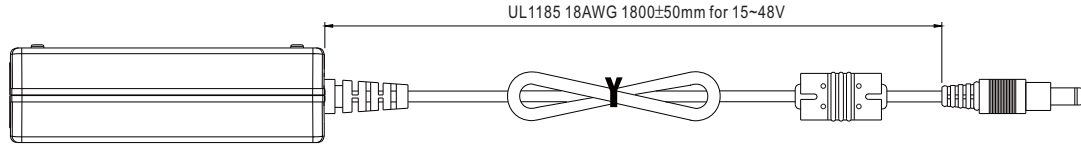
Unit:mm



### Plug Assignment

Standard plug: P1J

P1J	
P/N	OUTPUT
CENTER	+



### ■ Plug Assignment

Standard plug: P1J

P1J	
P/N	OUTPUT
CENTER	+

### ■ Installation Manual

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