





Features

- Universal AC input / Full range (up to 277VAC)
- · 2 pole AC inlet IEC320-C8
- · Built-in active PFC function
- · Constant current design
- · Protections: Short circuit
- · Cooling by free air convection
- · Fully isolated plastic case
- Class II power unit, no FG
- · 100% full load burn-in test
- No load power consumption<0.15W
- · Low cost, high reliability
- · Suitable for indoor LED lighting and moving sign applications
- · 3 years warranty

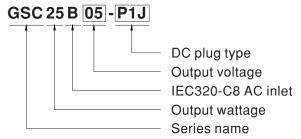
Applications

- · Indoor LED lighting
- · Office lighting
- · Commercial lighting
- Indoor LED decorative lighting

Description

GSC25B series is a 25W external LED power supply with PFC function. The design of this product is based on the "plug and play' concept for adaptors. The AC input side exploits the 2-Pin (Class II, no FG) international standard inlet IEC320-C8, and the output side is equipped with the highly accepted DC connector (2.1x5.5x11mm) in the market. This product accepts $90 \sim 277 \text{VAC}$ input and offers various constant current output models with 350 mA/500 mA/700 mA/1050 mA/1400 mA. The design complies with the lighting requirements of EMI EN55015 and the harmonic current demand per EN61000-3-2 Class C. In addition, the no load power consumption is less than 0.15W, and the setup time is less than 500 ms, making GSC25B conform to the ErP regulation required by European Union for lighting systems as well.

Model Encoding

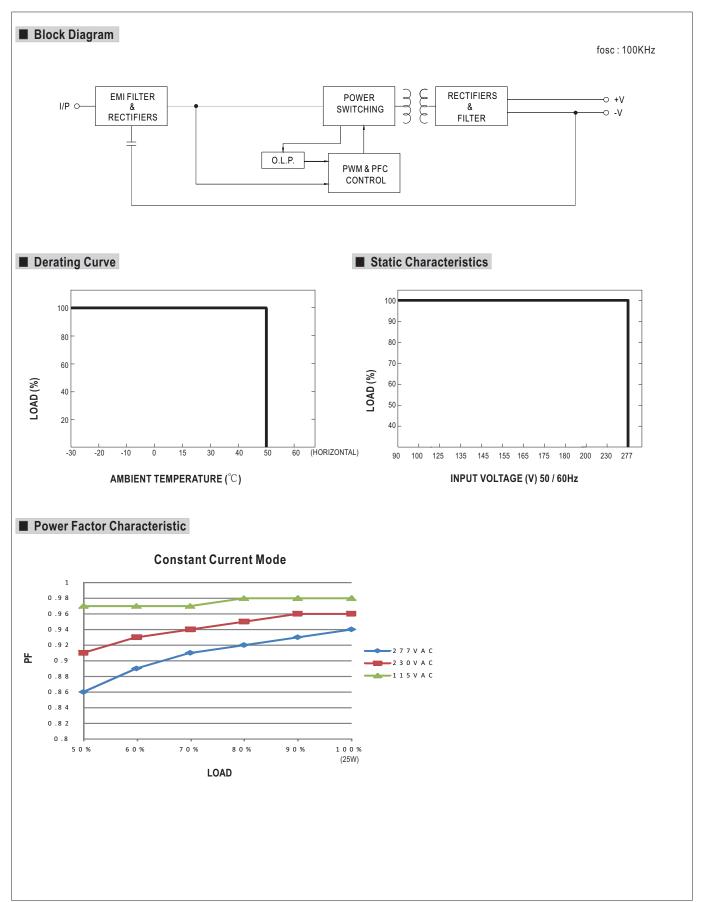


25W Single Output LED Power Supply

SPECIFICATION

MODEL		GSC25B-350	GSC25B-500	GSC25B-700	GSC25B-1050	GSC25B-1400			
	RATED CURRENT	350mA	500mA	700mA	1050mA	1400mA			
	OPERATING VOLTAGE RANGE	36 ~ 72V	26 ~ 52V	18 ~ 36V	12 ~ 24V	9 ~ 18V			
OUTPUT	CURRENT ACCURACY Note.3	±8.0%							
	RATED POWER	25.2W	26W	25.2W	25.2W	25.2W			
	RIPPLE & NOISE (max.) Note.2	7.2Vp-p	5Vp-p	3.6Vp-p	2.4Vp-p	1.8Vp-p			
	NO LOAD OUTPUT VOLTAGE (max.)	90V	63V	50V	35V	25V			
	SETUP TIME	500ms / 230VAC 1000ms / 115VAC at full load							
	VOLTAGE RANGE	90 ~ 277VAC 127 ~ 392VDC							
INPUT	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.92/230VAC, PF>0.91/277VAC at full load (Please refer to "Power Factor Characteristic" curve)							
	TOTAL HARMONIC DISTORTION	Total harmonic distortion will be lower than 20% when output loading is 75% or higher							
	EFFICIENCY (Typ.)	89.5%	89.5%	88.5%	87.5%	86%			
	AC CURRENT (Typ.)	0.6A/115VAC							
	INRUSH CURRENT(max.)	COLD START 17A(twidth=110µs measured at 50% lpeak) at 230VAC							
	LEAKAGE CURRENT	<0.5mA/240VAC							
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.							
	WORKING TEMP.	-30 ~ +50 °C (Refer to "Derating Curve")							
	WORKING HUMIDITY	20 ~ 95% RH non-condensing							
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)							
	VIBRATION	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes							
SAFETY & EMC	SAFETY STANDARDS	ENEC EN61347-1, EN61347-2-13 listed, EN62384 approved							
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC							
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH							
	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C (≥50% load) ; EN61000-3-3, FCC part 15 non-consumer equipment							
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024,EN61547, light industry level, criteria A							
OTHERS	MTBF	367.2K hrs min. MIL-HDBK-217F (25°C)							
	DIMENSION	79*54*33mm (L*W*H)							
	PACKING	211g; 60pcs / 13.7kg / CARTON							
CONNECTOR	PLUG	2.1ψ * 5.5ψ * 11mm, tuning fork type, center positive for stock							
CONNECTOR	CABLE	See page 2; Other type available by customer requested							
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Please see "AC input voltage drop vs. output current characteristics" table. Constant current operation region is within 50% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers. 								

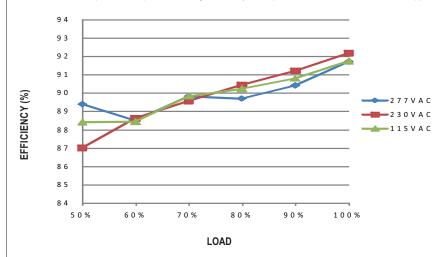






■ EFFICIENCY vs LOAD (GSC25B-350)

GSC25B series possess superior working efficiency that up to 88% can be reached in field applications.



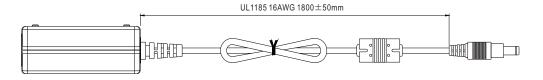
■ AC input voltage drop vs. Output current characteristics

AC input drop	10%	8%	5%	3%
lo drop	<25%	<23%	<15%	<10%

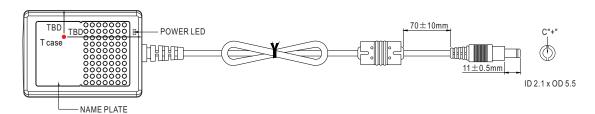
Note: Output current will return to the rated value within 80ms

■ Mechanical Specification

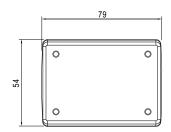
Unit:mm

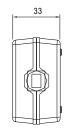






※ T case: Max. Case Temperature.





■ Installation Manual

Please refer to: http://www.meanwell.com/webnet/search/InstallationSearch.html