





#### 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
- No load power consumption<0.15W</li>
- Low cost, high reliability
- · 100% full load burn-in test
- 3 years warranty

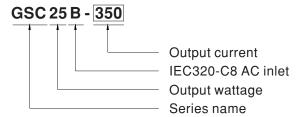
## Applications

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

### Description

GSC25B series is a 25W external desktop 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 90~277VAC input and offers various constant current output models with 350mA/500mA/700mA/1050mA/1400mA. 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 500ms, making GSC25B conform to the ErP regulation required by European Union for lighting systems as well.

## Model Encoding

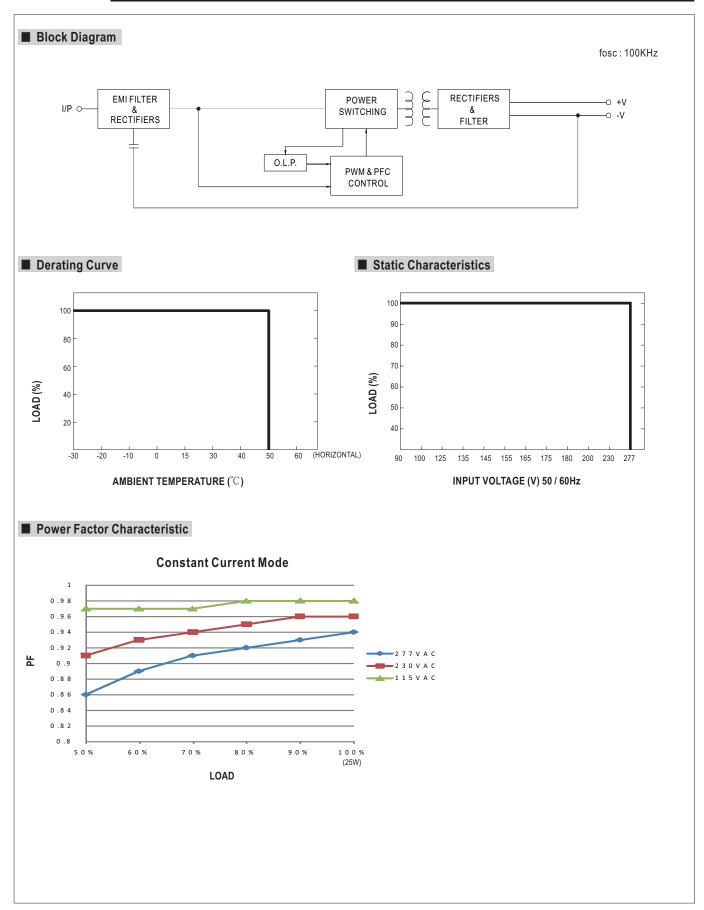


# 25W Single Output LED Power Supply

### **SPECIFICATION**

MODEL		GSC25B-350	GSC25B-500	GSC25B-700	GSC25B-1050	GSC25B-1400		
	RATED CURRENT	350mA	500mA	700mA	1050mA	1400mA		
ОИТРИТ	OPERATING VOLTAGE RANGE	36 ~ 72V	26 ~ 52V	18 ~ 36V	12 ~ 24V	9 ~ 18V		
	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% Ipeak) at 230VAC						
	LEAKAGE CURRENT	<0.5mA / 240VAC						
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.						
ENVIRONMENT	WORKING TEMP.	-30 ~ +50°C (Refer to "Derating Curve")						
	WORKING HUMIDITY	20 ~ 95% RH non-condensing						
	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	Dekra GS/ENEC EN61347-1, EN61347-2-13 listed, EN62384, GB19510.1, GB19510.14 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, GB17743, GB17625.1						
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11,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	$2.1\psi$ * $5.5\psi$ * 11mm, tuning fork type, center positive for stock						
	CABLE	See page 4; Other type available by customer requested						
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Please see "AC input voltage drop vs. output current characteristics" table.</li> <li>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.</li> <li>Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.</li> </ol>							

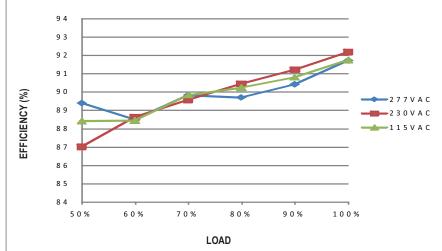






### ■ EFFICIENCY vs LOAD (GSC25B-350)

 ${\tt GSC25B\ series\ possess\ superior\ working\ efficiency\ that\ up\ to\ 89.5\%\ can\ be\ reached\ in\ field\ applications.}$ 



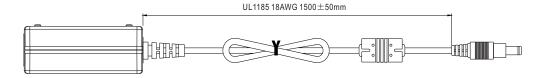
### ■ AC input voltage drop vs. Output current characteristics

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

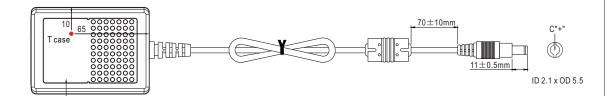
Note: Output current will return to the rated value within 80ms

#### ■ Mechanical Specification

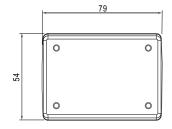
Unit:mm

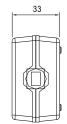






NAME PLATE ※ T case: Max. Case Temperature.





#### **■** Installation Manual

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