





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
- · Low cost, high reliability
- 100% full load burn-in test
- 3 years warranty

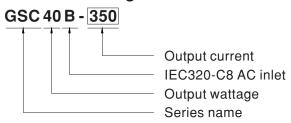
Applications

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

Description

GSC40B series is a 40W 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 $90 \sim 277$ VAC 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 GSC40B conform to the ErP regulation required by European Union for lighting systems as well.

■ Model Encoding

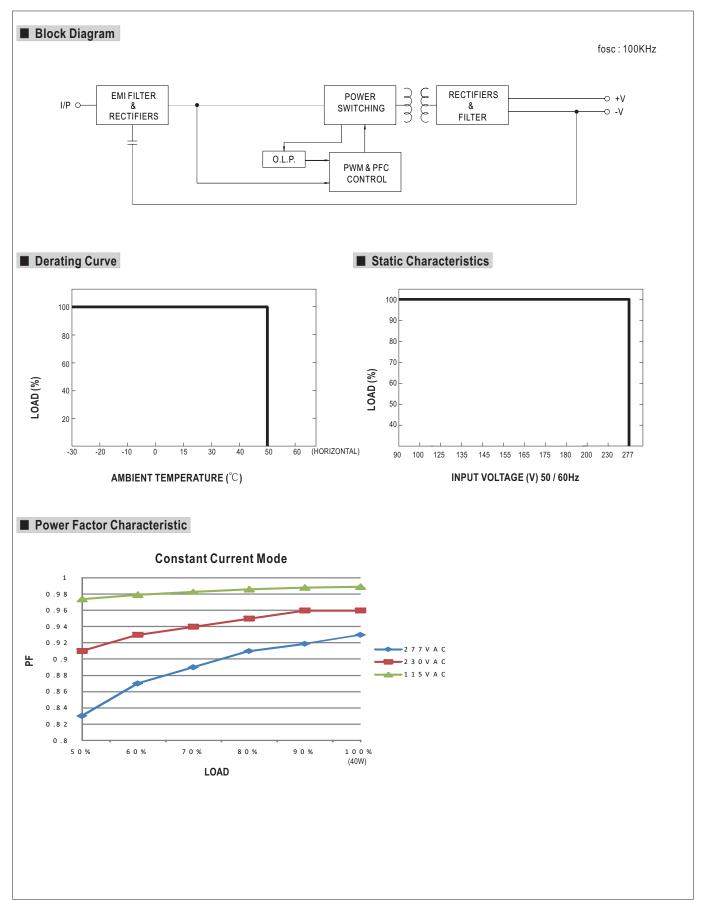




SPECIFICATION

MODEL		GSC40B-350	GSC40B-500	GSC40B-700	GSC40B-1050	GSC40B-1400	
ОИТРИТ	RATED CURRENT	350mA	500mA	700mA	1050mA	1400mA	
	OPERATING VOLTAGE RANGE Note.4	50 ~ 100V	40 ~ 80V	29 ~ 58V	19 ~ 38V	14 ~ 28V	
	CURRENT ACCURACY Note.3	±8.0%					
	RATED POWER	35W	40W	40.4W	39.6W	39.2W	
	RIPPLE & NOISE (max.) Note.2	11.6Vp-p	8Vp-p	5.8Vp-p	3.8Vp-p	2.9Vp-p	
	NO LOAD OUTPUT VOLTAGE (max.)	120V	100V	80V	55V	40V	
	SETUP TIME	500ms / 230VAC 1000ms / 115VAC at full load					
INPUT	VOLTAGE RANGE	90 ~ 277VAC 127 ~ 392VDC					
	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%	87%	
	AC CURRENT (Typ.)	0.7A/115VAC 0.35A/230VAC 0.25A/277VAC					
	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.					
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, EAC TP TC 004 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, EAC TP TC 020					
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11,EN61547, light industry level, criteria A, EAC TPTC 020					
OTHERS	MTBF	358.9K hrs min. MIL-HDBK-217F (25° C)					
	DIMENSION	79*54*33mm (L*W*H)					
	PACKING	275g; 60pcs / 17.5kg / CARTON					
CONNECTOR	PLUG	2.1ψ * 5.5ψ * 11mm, tuning fork type, center positive for stock					
CONNECTOR	CABLE	See page 4					
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. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers. 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. Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 						

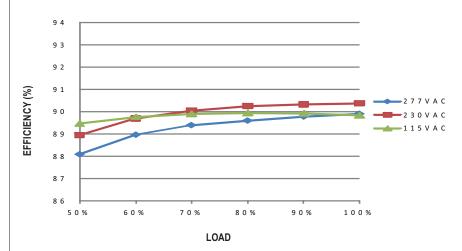






■ EFFICIENCY vs LOAD (GSC40B-350)

GSC40B series possess superior working efficiency that up to 89.5% can be reached in field applications.



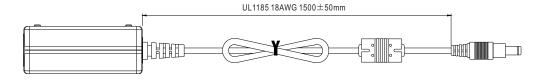
■ AC input voltage drop vs. Output current characteristics

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

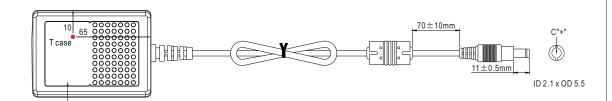
Note : Output current will return to the rated value within $80 \, \text{ms}$

■ Mechanical Specification

Unit:mm

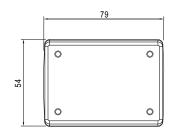


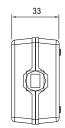




NAME PLATE

** T case: Max. Case Temperature.





■ Installation Manual

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