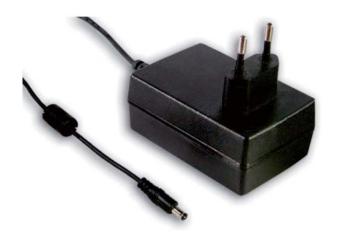


1F., No.40, Juren Ln., Sec. 2, Sanmin Rd., Banciao Dist., New Taipei City

22069, Taiwan (R.O.C.)

Phone: 886-2-2957 5580 Fax: 886-2-2957 7473

18W LED Driver power supply < GSC18E





Features

- Universal AC input / Full range (up to 277VAC)
- · 2 pole EURO plug
- · 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

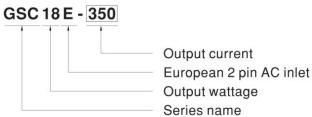
Applications

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

Description

GSC18E series is a 18W external wall-mounted 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-Pole (Class II, no FG) standard European plug, and the output side is equipped with the highly accepted DC connector (2.1x5.5x11mm) in the market. This product accepts $90\sim277$ 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 GSC18E conform to the ErP regulation required by European Union for lighting systems as well.

■ Model Encoding





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SPECIFICATION

MODEL		GSC18E-350	GSC18E-500	GSC18E-700	GSC18E-1050	GSC18E-1400
OUTPUT	RATED CURRENT	350mA	500mA	700mA	1050mA	1400mA
	OPERATING VOLTAGE RANGE Note.4	26 ~ 52V	18 ~ 36V	13 ~ 26V	8 ~ 17V	6 ~ 13V
	CURRENT ACCURACY Note.3	±8.0%				
	RATED POWER	18.2W	18W	18.2W	17.9W	18.2W
	RIPPLE & NOISE (max.) Note.2	4.6Vp-p	3Vp-p	2.5Vp-p	1.6Vp-p	1.6Vp-p
	NO LOAD OUTPUT VOLTAGE (max.)	70V	50V	35V	25V	18V
	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%	88.5%	88.5%	87%	85.5%
	AC CURRENT (Typ.)	0.6A/115VAC 0.3A/230VAC 0.2A/277VAC				
	INRUSH CURRENT(max.)	COLD START 17A(twidth=110 s 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 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				
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11,EN61547, light industry level, criteria A				
OTHERS	MTBF	338.3K hrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	79*54*33mm (L*W*H)				
	PACKING	191g; 60pcs / 12.5kg / CARTON				
CONNECTOR	PLUG	2.1ψ * 5.5ψ * 11mm, tuning fork type, center positive for stock				
	CABLE	See page 4; Other type available by customer requested				
NOTE	Ripple & noise are measure Please see "AC input voltage Constant current operation reconfirm special electrical in the second sec	Illy mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. ge drop vs. output current characteristics" table. region is within 50% ~100% rated output voltage. This is the suitable operation region for LED related applications, but pleas requirements for some specific system design. s suggested, but is not suitable for using additional drivers.				

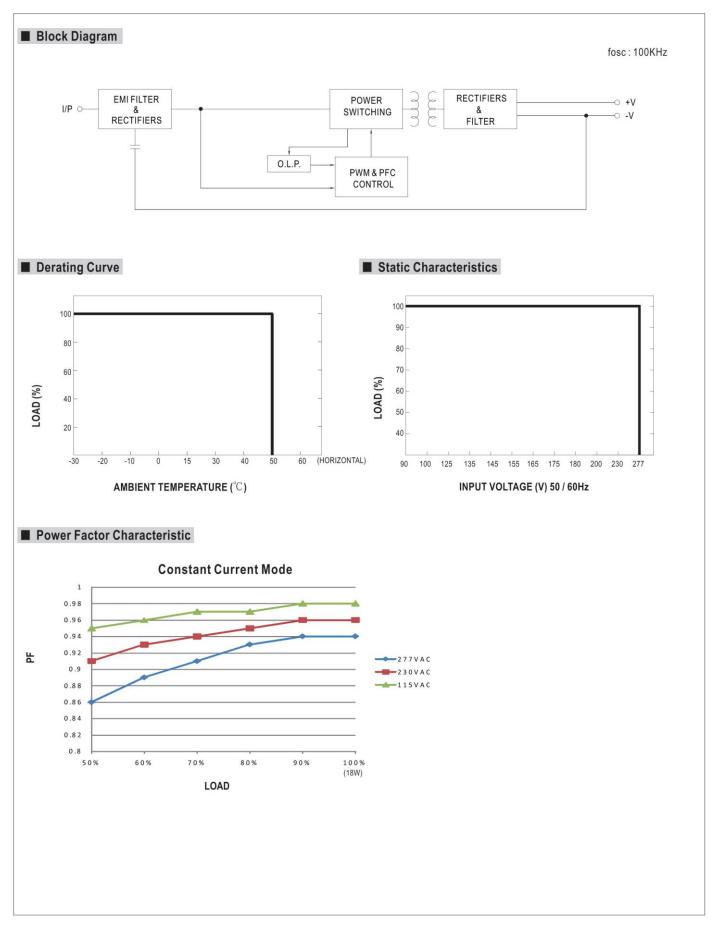


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