





■ Features

- Universal AC input / Full range (up to 277VAC)
- · 2 pole EURO plug
- · Built-in active PFC function
- · Constant voltage design
- · Protections: Short circuit / Overload
- · Cooling by free air convection
- · Fully isolated plastic case
- · Class II power unit, no FG
- No load power consumption<0.3W
- · Low cost, high reliability
- 100% full load burn-in test
- 3 years warranty

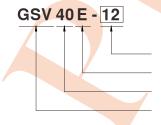
Applications

- LED strip lighting
- Indoor LED lighting
- LED decorative lighting
- Architecture lighting
- · Commercial lighting

Description

GSV40E series is an 40W 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 90~277VAC input and offers constant voltage output models with 12V/24V. 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 0.3W, and the setup time is less than 500ms, making GSV40E conform to the ErP regulation required by European Union for lighting systems as well.

Model Encoding



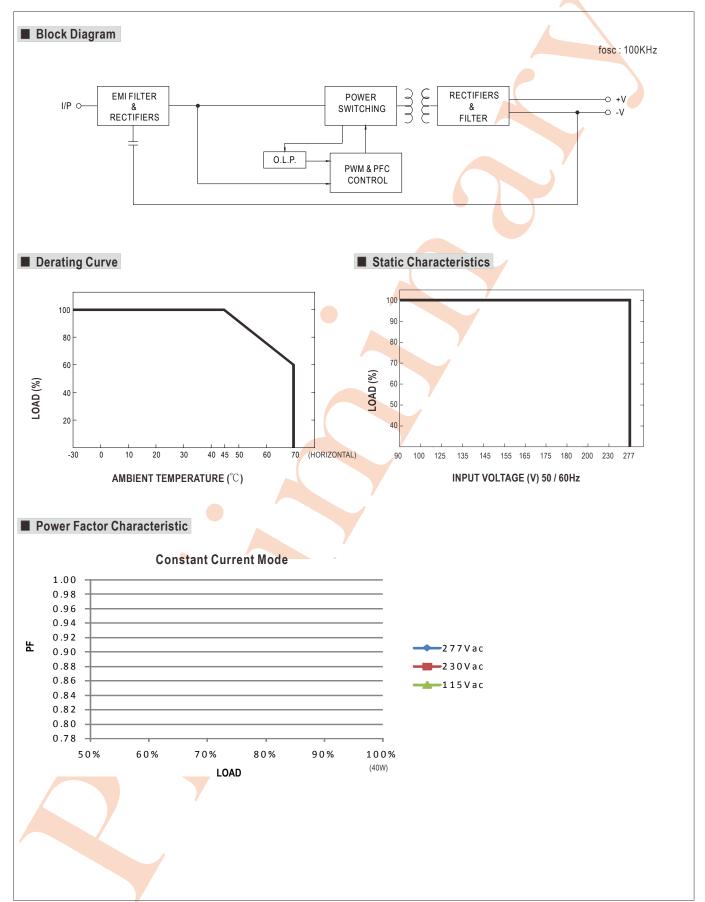
Output voltage
European 2 pin AC inlet
Output wattage
Series name



SPECIFICATION

MODEL		GSV40E-12	GSV40E-24			
ОИТРИТ	DC VOLTAGE	12V	24V			
	OPERATING VOLTAGE RANGE Note.4	6 ~ 12V	12 ~ 24V			
	RATED CURRENT REGION Note.3	3.3A	1.7A			
	RATED POWER	39.6W	40.8W			
	RIPPLE & NOISE (max.) Note.2	1.2Vp-p	2.4Vp-p			
	VOLTAGE TOLERANCE Note.3	±10%				
	LINE REGULATION	±2.0%				
	LOAD REGULATION	±5.0%				
	SETUP, RISE, HOLD UP TIME	500ms, 30ms/230VAC 1000ms, 50ms/115VAC at full load				
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/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.)	84%	86%			
	AC CURRENT (Typ.)	0.7A/115VAC 0.35A/230VAC 0.25A/277VAC				
	INRUSH CURRENT(max.)	COLD START 17A(twidth=75, s measured at 50% lpeak) at 230VAC				
	LEAKAGE CURRENT	<0.5mA / 240VAC				
	0.450 1.040	108 ~ 120% rated output power				
PROTECTION	OVER LOAD	Protection type: Shut down o/p voltage, re-power on to recover				
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is remo	ved.			
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°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 (0~45°C)				
	VIBRATION	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes				
SAFETY &	SAFETY STANDARDS	TUV/ENEC EN61347-1, EN61347-2-13 listed, EN62384 appro	ved			
	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, EN55024,EN61547, light industry level, criteria A				
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	2.1\psi * 5.5\psi * 11mm, tuning fork type, center positive for stock				
	CABLE	See page 2				
NOTE	All parameters NOT specia Ripple & noise are measure Please see "AC input volta, Direct connecting to LEDs, Constant current operation	pecially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. easured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. voltage drop vs. output current characteristics" table. EDs is suggested, but is not suitable for using additional drivers. ation region is within 50% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please trical requirements for some specific system design.				

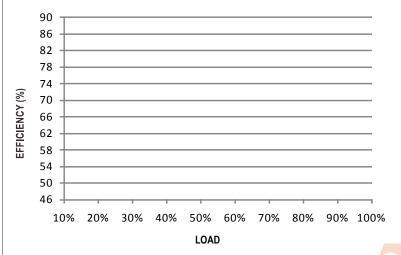








GSV40E series possess superior working efficiency that up to 86% can be reached in field applications.



■ 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

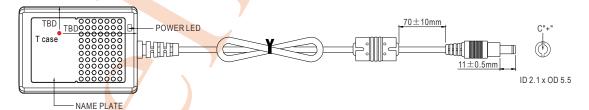
UL1185 18AWG 1500±50mm

─277Vac

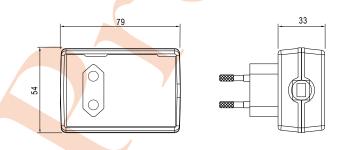
230Vac

<u></u>115Vac





X T case: Max. Case Temperature.



■ Installation Manual

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

Unit:mm