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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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B F WW W D SELV IP40 R KEWA CBCE

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

Description

Applications

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

GSC18B series is a 18W 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 GSC18B conform to the ErP regulation required by European Union for lighting systems as well.



Output current IEC320-C8 AC inlet Output wattage Series name



GSC18B series

SPECIFICATION

MODEL		GSC18B-350	GSC18B-500	GSC18B-700	GSC18B-1050	GSC18B-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	土8.0%				
	RATED POWER	18.2W	18W	18.2W	17.9W	18.2W
	RIPPLE & NOISE (max.) Note.2	4.6Vp-p	ЗVp-р	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=110µ/s measured at 50% Ipeak) at 230VAC				
	LEAKAGE CURRENT	<0.5mA/240VAC				
ROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.				
ENVIRONMENT	WORKING TEMP.	-30 ~ +50 $^\circ\mathrm{C}$ (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-0/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	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 * 5.5 ψ * 11mm, tuning fork type, center positive for stock				
	CABLE	See page 4 ; Other type available by customer requested				
NOTE	 Ripple & noise are measured Please see "AC input voltage Constant current operation reconfirm special electrical 	Ily 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. is suggested, but is not suitable for using additional drivers.				



18W Single Output LED Power Supply

GSC18B series





GSC18B series

EFFICIENCY vs LOAD (GSC18B-350)



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