



- Universal AC input / Full range (up to 277VAC)
- 2 pole USA 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
- 100% full load burn-in test
- No load power consumption<0.15W
- · Low cost, high reliability
- Suitable for indoor LED lighting and moving sign applications
- 3 years warranty







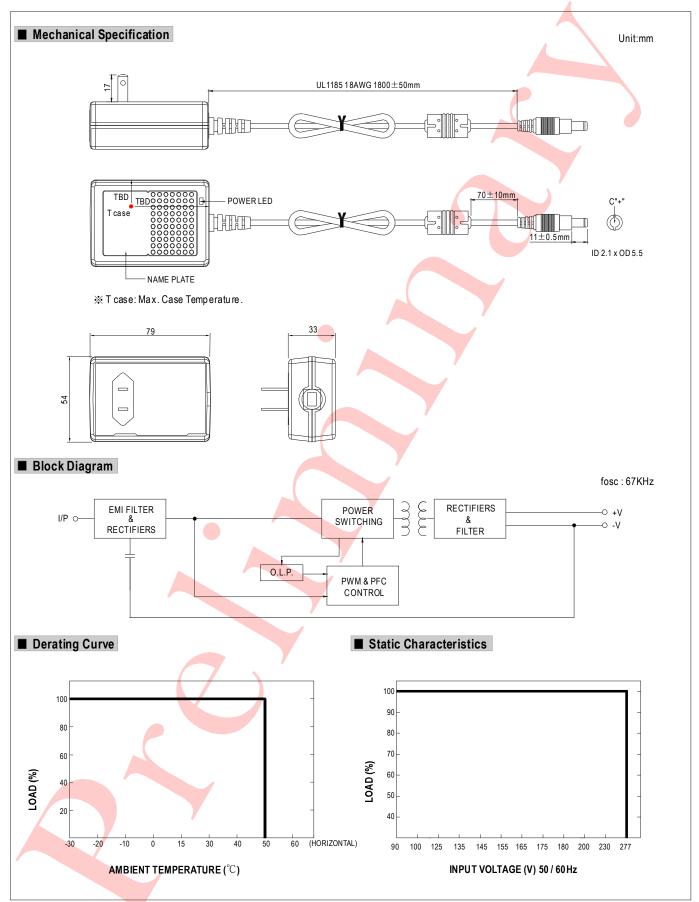




SPECIFICATION

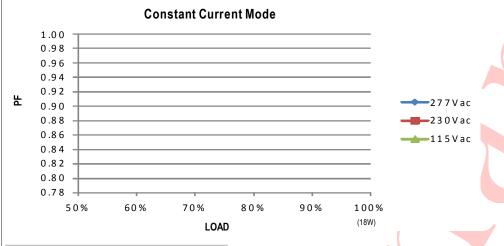
MODEL		GS C18U-350	GSC18U-500	GSC18U-700	GSC18U-1050	GSC18U-1400		
	RATED CURRENT	350mA	500mA	700mA	1050mA	1400mA		
OUTPUT	OPERATING VOLTAGE RANGE Note.4	26 ~ 52V	18 ~ 36V	13 ~ 26V	8 ~ 17V	6 ~ 13V		
	CURRENT ACCURACY Note.3					15.		
	RATED POWER	18.2W	18W	18.2W	17.9W	18.2W		
	RIPPLE & NOISE (max.) Note.2	4.6Vp-p	3Vp-p	2.5Vp-p	1.5Vp-p	1Vp-p		
	NO LOAD OUTPUT VOLTAGE (max.)	- ' '	50V	35V	25V	18V		
	SETUPTIME	500ms / 230VAC 500ms / 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.)	88%	87%	86%	85%	84%		
	AC CURRENT (Typ.)	0.6A/115VAC						
	INRUSH CURRENT(max.)	COLD START 15A(twidth=75µs 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	UL8750 Listed, CSA C22.2 No. 250.13-12(except for 350/500mA)						
	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 FCC part 15 non-consumer equipment						
OTHERS	MTBF	K hrs min MIL-HDBK-217F (25°C)						
	DIMENSION	79*54*33mm (L*W*H)						
	PACKING	Kg						
CONNECTOR	PLUG	2.1\psi * 5.5\psi * 11mm, tuning fork type, center positive for stock						
	CABLE	See page 2						
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. 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. 							
	5. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.							





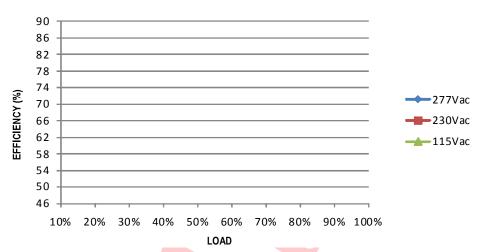


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (GSC18U-350)

GSC18U series possess superior working efficiency that up to 88% can be reached in field applications.



■ AC input voltage drop vs. Output current characteristics

AC input drop	10%	8%	5%	3%
lo drop	<18%	<13%	<8%	<6%

Note: Output current will return to the rated value within 40ms