



### ■ 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
- 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

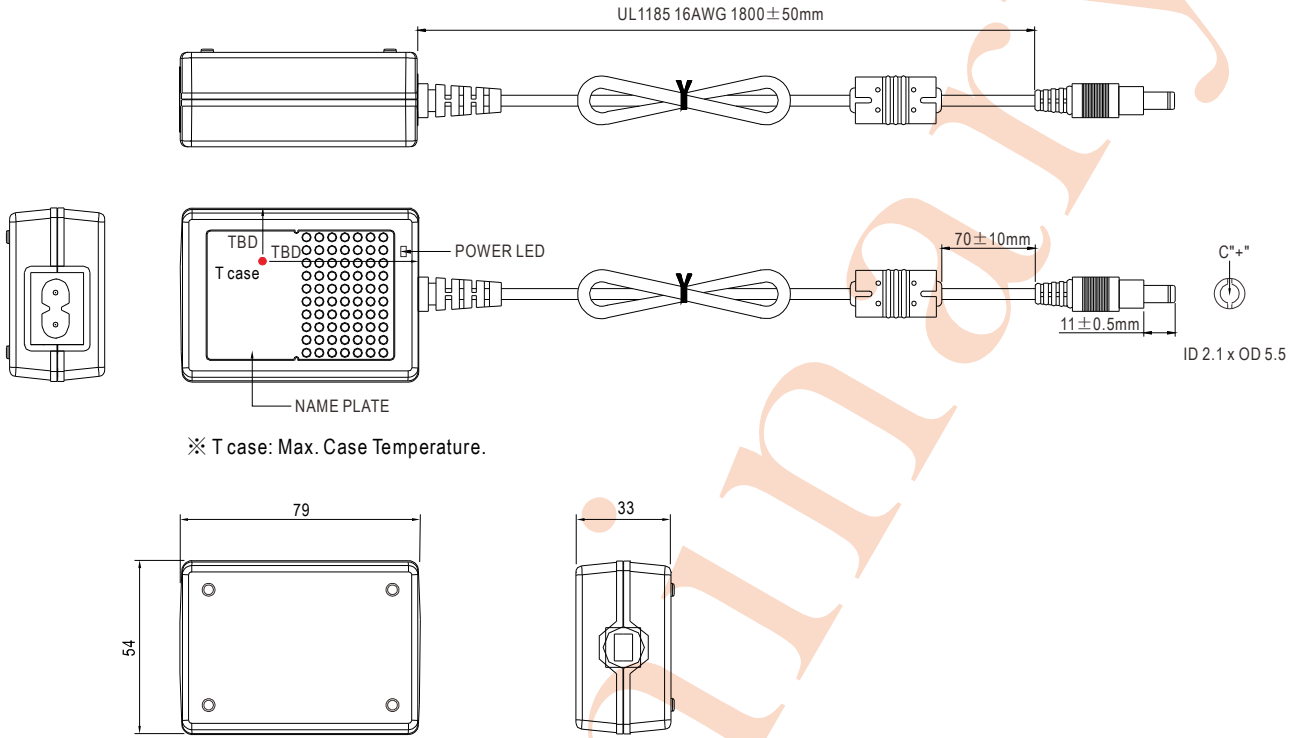


### SPECIFICATION

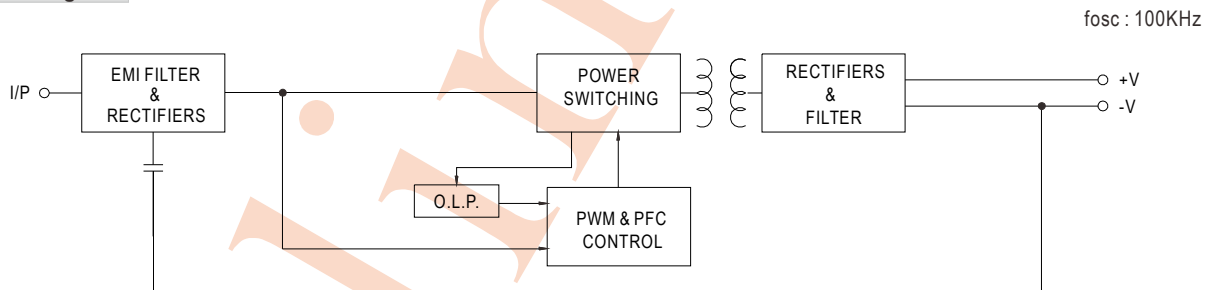
MODEL	GSC25B-350	GSC25B-500	GSC25B-700	GSC25B-1050	GSC25B-1400	
OUTPUT	RATED CURRENT	350mA	500mA	700mA	1050mA	1400mA
	OPERATING VOLTAGE RANGE	36 ~ 72V	26 ~ 52V	18 ~ 36V	12 ~ 24V	9 ~ 18V
	CURRENT ACCURACY Note.3	± 8.0%				
	RATED POWER	25.2W	26W	25.2W	25.2W	25.2W
	RIPPLE & NOISE (max.) Note.2	7.2Vp-p	5Vp-p	3.6Vp-p	2.4Vp-p	1.8Vp-p
	NO LOAD OUTPUT VOLTAGE (max.)	82V	63V	50V	35V	25V
	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.)	88%	87%	86%	85%	84%
	AC CURRENT (Typ.)	0.6A/115VAC	0.3A/230VAC	0.2A/277VAC		
	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	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 (≥75% load) ; EN61000-3-3, FCC part 15 non-consumer equipment				
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61547, light industry level, criteria A				
OTHERS	MTBF	K hrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	79*54*33mm (L*W*H)				
	PACKING	Kg				
CONNECTOR	PLUG	2.1φ * 5.5φ * 11mm, tuning fork type, center positive for stock				
	CABLE	See page 2 ; Other type available by customer requested				
NOTE	<ol style="list-style-type: none"> <li>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>3. Please see "AC input voltage drop vs. output current characteristics" table.</li> <li>4. 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.</li> <li>5. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.</li> </ol>					

■ Mechanical Specification

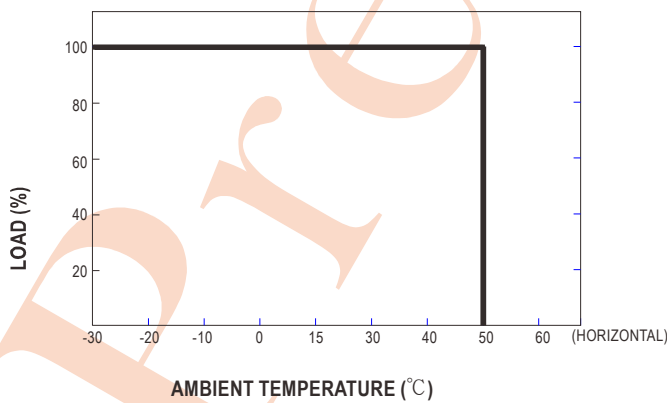
Unit:mm



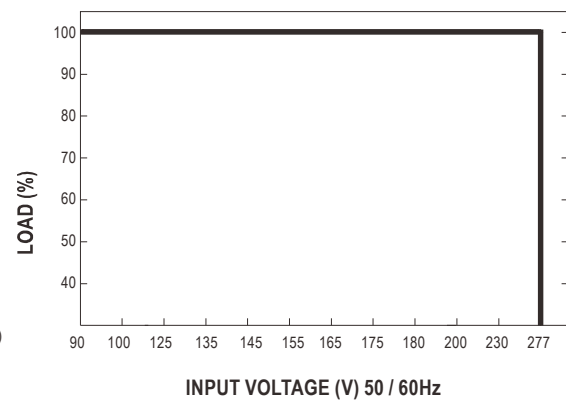
■ Block Diagram



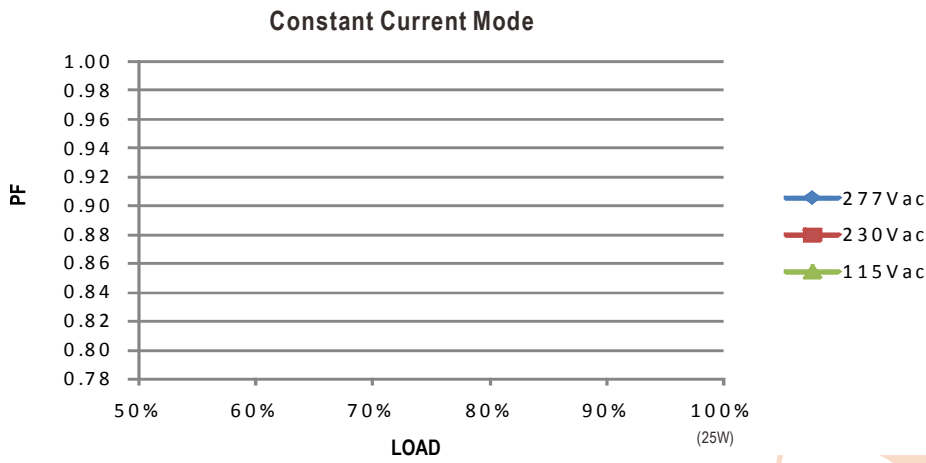
■ Derating Curve



■ Static Characteristics

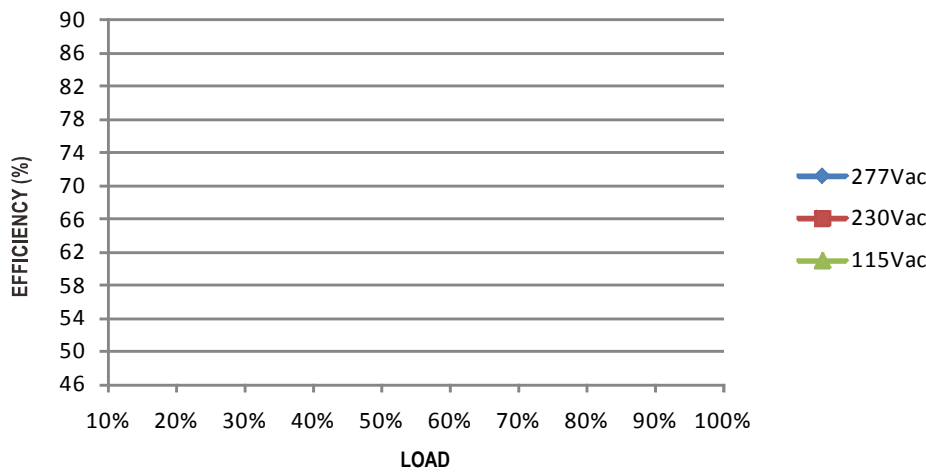


**Power Factor Characteristic**



**EFFICIENCY vs LOAD (GSC25B-350)**

GSC25B 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%
Io drop	<25%	<23%	<15%	<10%

Note : Output current will return to the rated value within 60ms