

GS15B series



15W AC-DC Reliable Industrial Adaptor



■ Features

- Universal AC input / Full range
- 2 pole AC inlet IEC320-C8, Class II power unit
- No load power consumption < 0.075W
- **Energy efficiency Level VI**
- Comply with EISA 2007/DoE, EU ErP and meet CoC Version 5
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- Pass LPS
- 2 years warranty

■ Applications

- Consumer electronic devices
- Telecommunication devices
- Office facilities
- Industrial equipments

■ Description

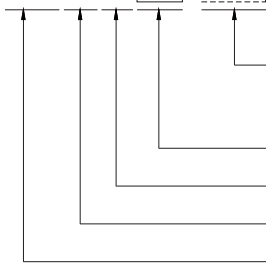
GS15B is a highly reliable, 15W desktop style single-output green adaptor series. This product is a class II power unit (no FG), equipped with a standard IEC320-C8 AC inlet and adopting the input range from 90VAC to 264VAC. The entire series supplies different models with output voltages ranging between 5VDC and 48VDC that can satisfy the demands for various types of consumer electronic devices.

With the efficiency up to 87% and the extremely low no-load power consumption below 0.075W, GS15B is compliant with USA EISA 2007/DoE, EU ErP, and meet Code of Conduct (CoC) Version 5. The supreme feature allows the adaptor to save the energy when it is either under the operating mode or the standby mode.

The entire series utilizes the 94V-0 flame retardant plastic case. GS15B is certified for the international safety regulations.

■ Model Encoding

GS 15 B 05 - P1J



- DC plug type {
 - P1J: Plug for standard model, 2.1 ψ × 5.5 ψ × 11mm, C+ tuning fork type
 - Other options available by customer requested (see Page 4~5)
- Output voltage
- IEC320-C8 AC inlet
- Rated wattage
- Series name



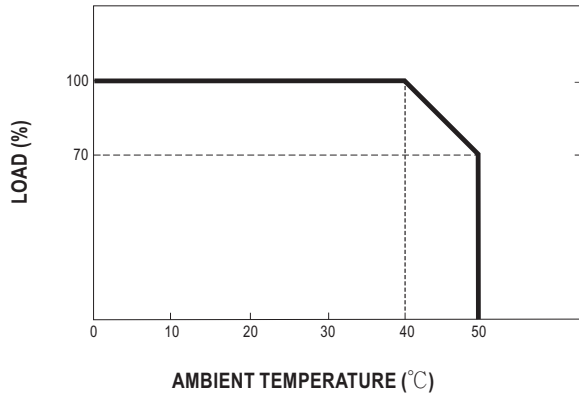
File Name:GS15B-SPEC 2017-10-11

Note: all features are subject to change without notice.

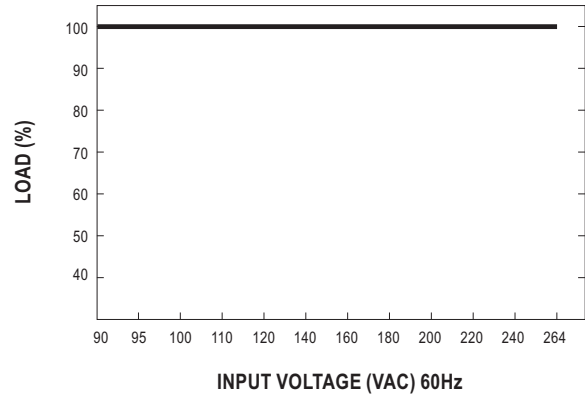
SPECIFICATION

ORDER NO.	GS15B-1P1J	GS15B-11P1J	GS15B-2P1J	GS15B-3P1J	GS15B-4P1J	GS15B-5P1J	GS15B-6P1J	GS15B-8P1J		
OUTPUT	SAFETY MODEL NO.	GS15B-1	GS15B-1-1	GS15B-2	GS15B-3	GS15B-4	GS15B-5	GS15B-6	GS15B-8	
	DC VOLTAGE Note.2	5V	7.5V	9V	12V	15V	18V	24V	48V	
	RATED CURRENT	2.40A	1.60A	1.66A	1.25A	1.00A	0.83A	0.625A	0.31A	
	CURRENT RANGE	0 ~ 2.40A	0 ~ 1.60A	0 ~ 1.66A	0 ~ 1.25A	0 ~ 1.00A	0 ~ 0.83A	0 ~ 0.625A	0 ~ 0.31A	
	RATED POWER	12W	12W	15W	15W	15W	15W	15W	15W	
	RIPPLE & NOISE (max.) Note.3	50mVp-p	80mVp-p	80mVp-p	80mVp-p	100mVp-p	120mVp-p	150mVp-p	240mVp-p	
	VOLTAGE TOLERANCE Note.4	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	
	LINE REGULATION Note.5	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION Note.6	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	
SETUP, RISE, HOLD UP TIME	3000ms, 50ms, 16ms at full load									
INPUT	VOLTAGE RANGE	90 ~ 264VAC 135 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	EFFICIENCY (Typ.)	80%	82.5%	85%	85%	85%	85%	85.5%	87%	
	AC CURRENT	0.5A / 100VAC								
	INRUSH CURRENT (max.)	Cold start 30A/ 115VAC 50A / 230VAC								
LEAKAGE CURRENT(max.)	0.25mA / 240VAC									
PROTECTION	OVERLOAD	105 ~ 250% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed								
	OVER VOLTAGE	>120% rated output voltage Protection type : Clamp by zener diode								
ENVIRONMENT	WORKING TEMP.	0 ~ +50°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20% ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH non-condensing								
	TEMP. COEFFICIENT	±0.03% / °C (0 ~ 40°C)								
VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes									
SAFETY & EMC (Note. 7)	SAFETY STANDARDS	TUV EN60950-1, UL60950-1, CSA C22.2 approved								
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC								
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH								
	EMC EMISSION	Parameter	Standard					Test Level / Note		
		Conducted emission	EN55032(CISPR32)FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B)					Class B		
		Radiated emission	EN55032(CISPR32)FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B)					Class B		
		Harmonic current	EN61000-3-2					Class A		
	Voltage flicker	EN61000-3-3					-----			
	EMC IMMUNITY	Parameter	Standard					Test Level / Note		
		ESD	EN61000-4-2					Level 3, 8KV air; Level 2, 4KV contact		
		RF field susceptibility	EN61000-4-3					Level 2, 3V/m		
		EFT bursts	EN61000-4-4					Level 2, 1KV		
		Surge susceptibility	EN61000-4-5					Level 3, 1KV/L-N		
Conducted susceptibility		EN61000-4-6					Level 2, 3V			
Magnetic field immunity		EN61000-4-8					Level 1, 1A/m			
Voltage dips , interruption	EN61000-4-11					>95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods				
OTHERS	MTBF	500Khrs min. MIL-HDBK-217F(25°C)								
	DIMENSION	100*58.5*32.8mm (L*W*H)								
	PACKING	190g ; 90pcs / 18Kg / CARTON								
CONNECTOR	PLUG	See page 4~5 ; Other type available by customer requested								
	CABLE	See page 4~5 ; Other type available by customer requested								
NOTE	<p>1.All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient.</p> <p>2.DC voltage: The output voltage set at point measure by plug terminal & 50% load.</p> <p>3.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1µf & 47µf capacitor.</p> <p>4.Tolerance: includes set up tolerance, line regulation, load regulation.</p> <p>5.Line regulation is measured from low line to high line at rated load.</p> <p>6.Load regulation is measured from 0% to 100% rated load.</p> <p>7.The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)</p>									

Derating Curve



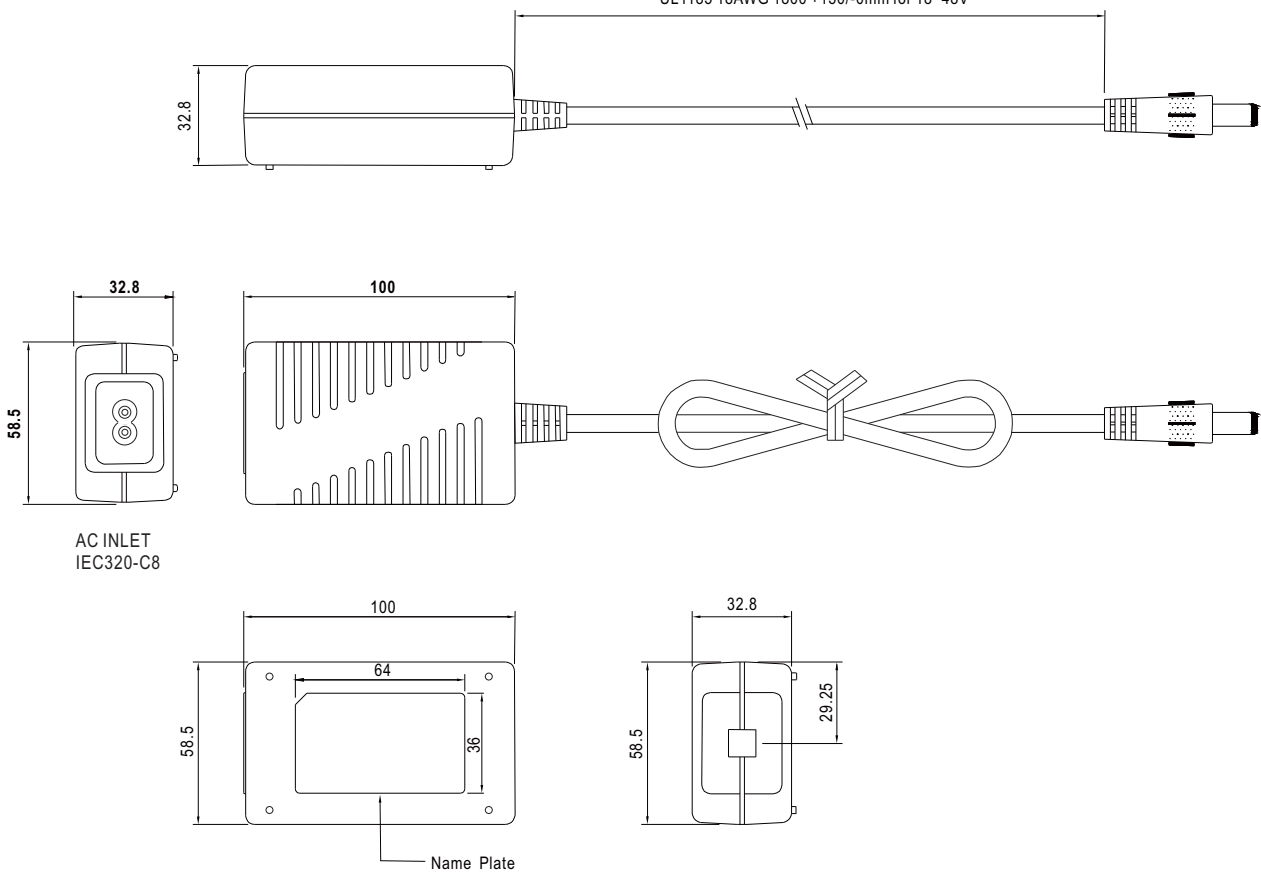
Static Characteristics



Mechanical Specification

Unit:mm

UL1185 18AWG 1200 +150/-0mm for 5~15V
 UL1185 18AWG 1800 +150/-0mm for 18~48V



■ DC output plug

☉ Standard plug: P1J

Unit:mm

P1J	Pin Assignment
	Outside Inside

☉ Optional DC plug:

Tuning Fork Style		Type No.	A	B	C
			OD	ID	L
	 (Straight)	P1I	5.5	2.1	9.5
		P1L	5.5	2.5	9.5
	 (Right-angled)	P1M	5.5	2.5	11.0
		P1IR	5.5	2.1	9.5
		P1JR	5.5	2.1	11.0
		P1LR	5.5	2.5	9.5
		P1MR	5.5	2.5	11.0
Barrel Style		Type No.	A	B	C
			OD	ID	L
	 (Straight)	P2I	5.5	2.1	9.5
		P2J	5.5	2.1	11.0
		P2L	5.5	2.5	9.5
		P2M	5.5	2.5	11.0
	 (Right-angled)	P2IR	5.5	2.1	9.5
		P2JR	5.5	2.1	11.0
		P2LR	5.5	2.5	9.5
		P2MR	5.5	2.5	11.0
Lock Style		Type No.	A	B	C
			OD	ID	L
 SWITCHCRAFT original or equivalent	P2S(S761K)		5.53	2.03	12.06
	P2K(761K)		5.53	2.54	12.06
	P2C(S760K)		5.53	2.03	9.52
	P2D(760K)		5.53	2.54	9.52
Min. Pin Style		Type No.	A	B	C
			OD	ID	L
 EIAJ equivalent	P3A		2.35	0.7	11.0
	P3B		4.0	1.7	11.0
	P3C		4.75	1.7	11.0

Center Pin Style	Type No.	A	B	C	D
		OD	ID	L	Center Pin
<p>EIAJ equivalent</p>	P4A	5.5	3.4	11.0	1.0
	P4B	6.5	4.4	11.0	1.4
	P4C	7.4	5.1	11.0	0.6
Min. DIN 3 Pin with Lock (male)	Type No.	Pin Assignment			
<p>KYCON KPPX-3P equivalent</p>		PIN No.	Output		
	R6B	1	+Vo		
		2	-Vo		
		3	+Vo		
Min. DIN 4 Pin with Lock (male)	Type No.	Pin Assignment			
<p>KYCON KPPX-4P equivalent</p>		PIN No.	Output		
	R7B	1	+Vo		
		2	-Vo		
		3	-Vo		
		4	+Vo		
Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment			
<p>KYCON KPJX-CM-4S equivalent</p>		PIN No.	Output		
	R7BF	1	+Vo		
		2	-Vo		
		3	-Vo		
		4	+Vo		
Stripped and tinned leads	Type No.	Pin Assignment			
<p>Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>10</u> mm)</p>	by customer	PIN No.	Output		
		1 (White)	+Vo		
		2 (Black)	-Vo		

■ Installation Manual

Please refer to : <http://www.meanwell.com/manual.html>