



### ■ Features

- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14, Class I 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

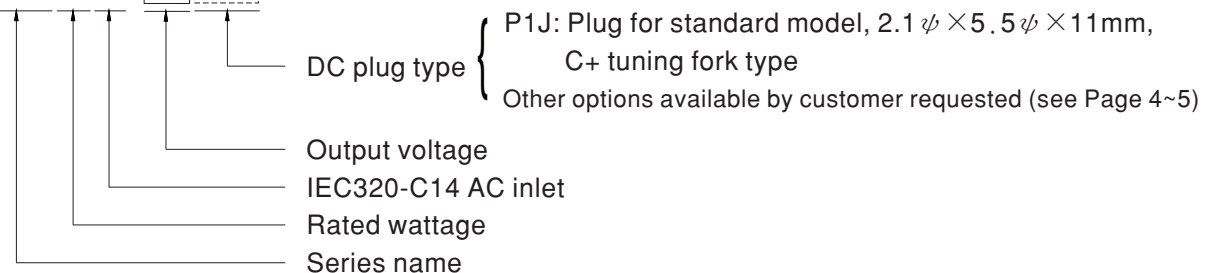
GS15A is a highly reliable, 15W desktop style single-output green adaptor series. This product is a class I power unit (with FG), equipped with a standard IEC320-C14 AC inlet and adopting the input range from 90VAC to 264VAC. The entire series supplies different models with output voltages ranging between 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, GS15A 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. GS15A is certified for the international safety regulations.

### ■ Model Encoding

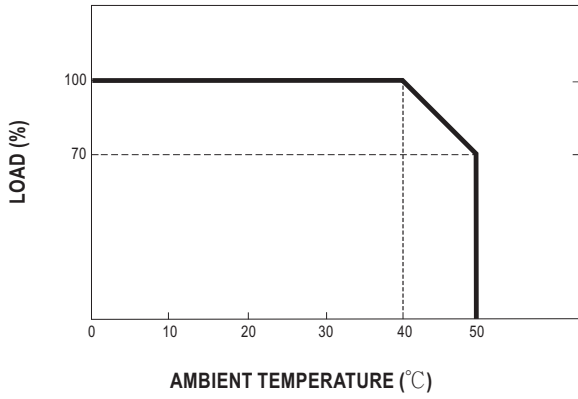
**GS 15 A - 1 P1J**



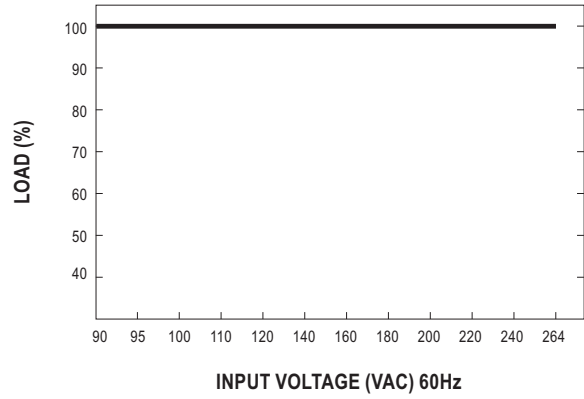
**SPECIFICATION**

ORDER NO.	GS15A-1P1J	GS15A-11P1J	GS15A-2P1J	GS15A-3P1J	GS15A-4P1J	GS15A-5P1J	GS15A-6P1J	GS15A-8P1J			
<b>OUTPUT</b>	<b>SAFETY MODEL NO.</b>	GS15A-1	GS15A-1-1	GS15A-2	GS15A-3	GS15A-4	GS15A-5	GS15A-6	GS15A-8		
	<b>DC VOLTAGE</b> <small>Note.2</small>	5V	7.5V	9V	12V	15V	18V	24V	48V		
	<b>RATED CURRENT</b>	2.40A	1.60A	1.66A	1.25A	1.00A	0.83A	0.625A	0.31A		
	<b>CURRENT RANGE</b>	0 ~ 2.40A	0 ~ 1.60A	0 ~ 1.66A	0 ~ 1.25A	0 ~ 1.00A	0 ~ 0.83A	0 ~ 0.625A	0 ~ 0.31A		
	<b>RATED POWER</b>	12W	12W	15W	15W	15W	15W	15W	15W		
	<b>RIPPLE &amp; NOISE (max.)</b> <small>Note.3</small>	50mVp-p	80mVp-p	80mVp-p	80mVp-p	100mVp-p	120mVp-p	150mVp-p	240mVp-p		
	<b>VOLTAGE TOLERANCE</b> <small>Note.4</small>	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%		
	<b>LINE REGULATION</b> <small>Note.5</small>	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	<b>LOAD REGULATION</b> <small>Note.6</small>	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%		
	<b>SETUP, RISE, HOLD UP TIME</b>	3000ms, 50ms, 16ms at full load									
<b>INPUT</b>	<b>VOLTAGE RANGE</b>	90 ~ 264VAC 135 ~ 370VDC									
	<b>FREQUENCY RANGE</b>	47 ~ 63Hz									
	<b>EFFICIENCY (Typ.)</b>	80%	82.5%	85%	85%	85%	85%	85.5%	87%		
	<b>AC CURRENT</b>	0.5A / 100VAC									
	<b>INRUSH CURRENT (max.)</b>	Cold start 30A/ 115VAC 50A/ 230VAC									
	<b>LEAKAGE CURRENT(max.)</b>	0.25mA / 240VAC									
<b>PROTECTION</b>	<b>OVERLOAD</b>	105 ~ 250% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed									
	<b>OVER VOLTAGE</b>	>120% rated output voltage Protection type : Clamp by zener diode									
	<b>ENVIRONMENT</b>	<b>WORKING TEMP.</b>	0 ~ +50°C (Refer to "Derating Curve")								
	<b>WORKING HUMIDITY</b>	20% ~ 90% RH non-condensing									
	<b>STORAGE TEMP., HUMIDITY</b>	-20 ~ +85°C, 10 ~ 95% RH non-condensing									
	<b>TEMP. COEFFICIENT</b>	±0.03% / °C (0 ~ 40°C)									
	<b>VIBRATION</b>	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes									
<b>SAFETY &amp; EMC</b> <small>(Note. 7)</small>	<b>SAFETY STANDARDS</b>	UL60950-1, CSA C22.2, TUV EN60950-1, EAC TP TC 004 approved									
	<b>WITHSTAND VOLTAGE</b>	I/P-O/P:3KVAC, I/P-FG:1.5KVAC									
	<b>ISOLATION RESISTANCE</b>	I/P-O/P, I/P-FG:100M Ohms / 500VDC / 25°C / 70% RH									
	<b>EMC EMISSION</b>	<b>Parameter</b>	<b>Standard</b>					<b>Test Level / Note</b>			
		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					-----			
	<b>EMC IMMUNITY</b>	<b>Parameter</b>	<b>Standard</b>					<b>Test Level / Note</b>			
		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 2KV/L,N-PE			
		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				
<b>OTHERS</b>	<b>MTBF</b>	500Khrs min. MIL-HDBK-217F(25°C)									
	<b>DIMENSION</b>	100*58.5*32.8mm (L*W*H)									
	<b>PACKING</b>	190g ; 90pcs / 18Kg / CARTON									
<b>CONNECTOR</b>	<b>PLUG</b>	See page 4~5 ; Other type available by customer requested									
	<b>CABLE</b>	See page 4~5 ; Other type available by customer requested									
<b>NOTE</b>	<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 &amp; 50% load.</p> <p>3.Ripple &amp; noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1µf &amp; 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 <a href="http://www.meanwell.com">http://www.meanwell.com</a>)</p>										

■ Derating Curve

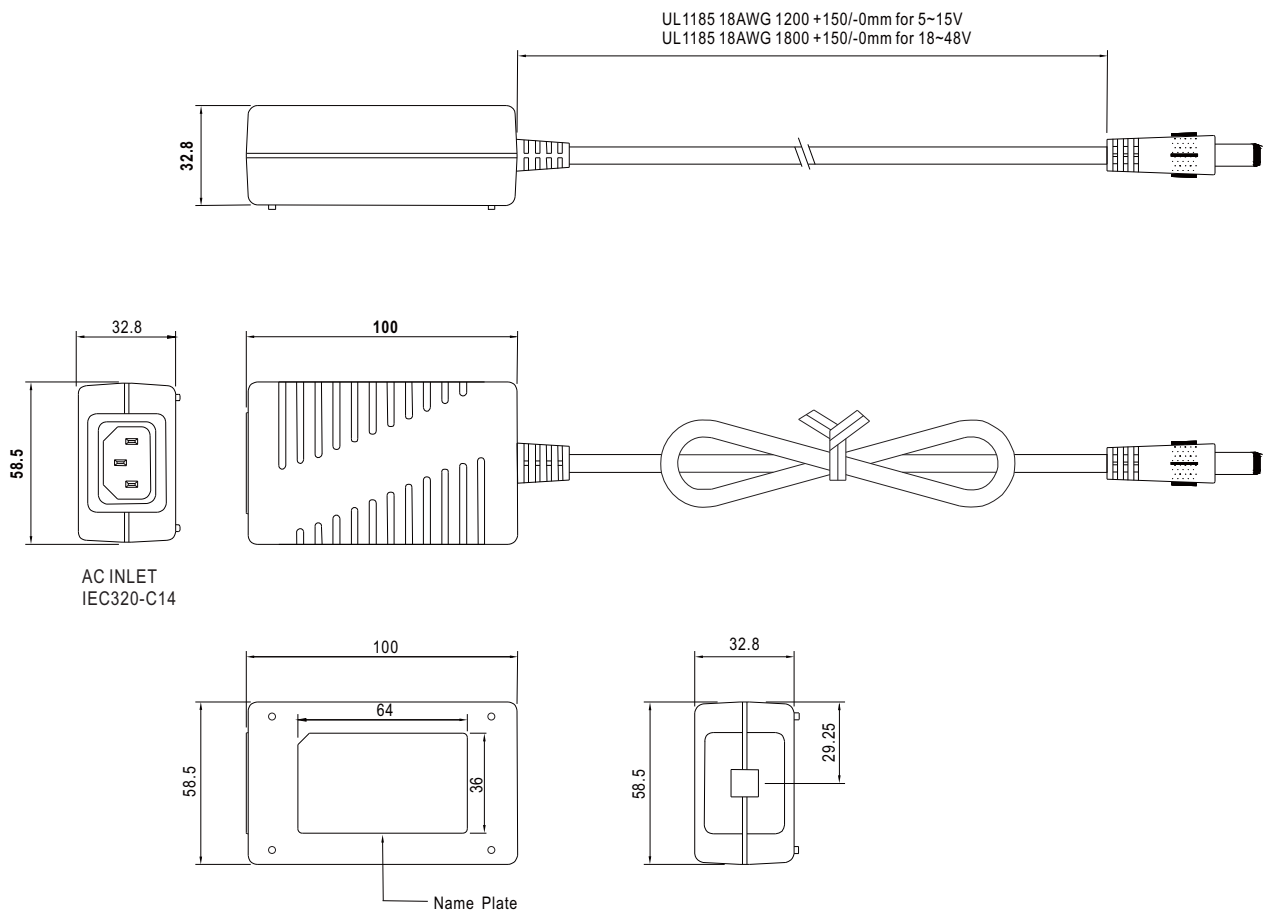


■ Static Characteristics



■ Mechanical Specification






Unit:mm





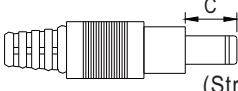
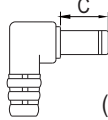


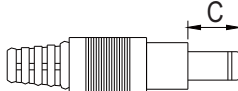
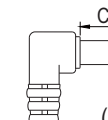


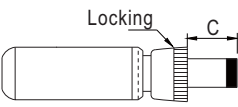



■ DC output plug

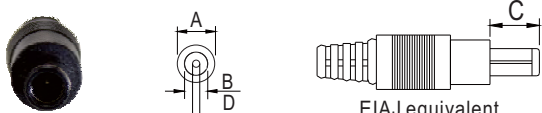
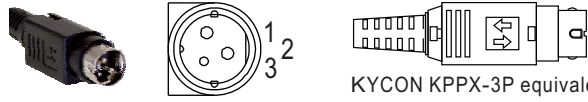
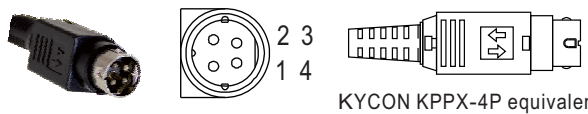

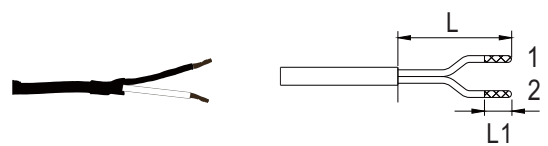
◎ Standard plug: P1J

Unit:mm

P1J		Pin Assignment
		
		Outside  Inside

◎ Optional DC plug:

Tuning Fork Style		Type No.	A	B	C		
			OD	ID	L		
			P1I	5.5	2.1	9.5	
		(Straight)	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		
			P2I	5.5	2.1	9.5	
		(Straight)	P2J	5.5	2.1	11.0	
			P2L	5.5	2.5	9.5	
			(Right-angled)	P2M	5.5	2.5	11.0
				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		
			P2S(S761K)	5.53	2.03	12.06	
		Locking	P2K(761K)	5.53	2.54	12.06	
		SWITCHCRAFT original or equivalent	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		
			P3A	2.35	0.7	11.0	
		EIAJ equivalent	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>	R6B	PIN No.	Output		
		1	+Vo		
		2	-Vo		
		3	+Vo		
Min. DIN 4 Pin with Lock (male)	Type No.	Pin Assignment			
 <p>KYCON KPPX-4P equivalent</p>	R7B	PIN No.	Output		
		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>	R7BF	PIN No.	Output		
		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>