



# 15~18W AC-DC Single Output Desktop

# GS18A series



### Features :

- Universal AC input / Full range
- No load power consumption < 0.3W
- ErP step2 compliant
- Meet EISA 2007 (Energy Independence and Security Act)
- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- LED indicator for power on
- Approvals: UL / CUL / TUV / BSMI / CB / FCC / CE
- Pass LPS
- 2 years warranty



### SPECIFICATION

ORDER NO.	GS18A05-P1J	GS18A07-P1J	GS18A09-P1J	GS18A12-P1J	GS18A15-P1J	GS18A18-P1J	GS18A24-P1J	GS18A28-P1J	GS18A48-P1J	
OUTPUT	<b>SAFETY MODEL NO.</b>	GS18A05	GS18A07	GS18A09	GS18A12	GS18A15	GS18A18	GS18A24	GS18A28	GS18A48
	<b>DC VOLTAGE</b> <small>Note.2</small>	5V	7.5V	9V	12V	15V	18V	24V	28V	48V
	<b>RATED CURRENT</b>	3.0A	2.0A	2.0A	1.50A	1.20A	1.0A	0.75A	0.64A	0.375A
	<b>CURRENT RANGE</b>	0 ~ 3.0A	0 ~ 2.0A	0 ~ 2.0A	0 ~ 1.50A	0 ~ 1.20A	0 ~ 1.0A	0 ~ 0.75A	0 ~ 0.64A	0 ~ 0.375A
	<b>RATED POWER (max.)</b>	15W	15W	18W	18W	18W	18W	18W	18W	18W
	<b>RIPPLE &amp; NOISE (max.)</b> <small>Note.3</small>	50mVp-p	80mVp-p	80mVp-p	80mVp-p	100mVp-p	150mVp-p	180mVp-p	240mVp-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%	±2.0%
	<b>LINE REGULATION</b> <small>Note.5</small>	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
<b>LOAD REGULATION</b> <small>Note.6</small>	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%	
<b>SETUP, RISE, HOLD UP TIME</b>	500ms, 20ms, 50ms/230VAC      500ms, 20ms, 15ms/115VAC at full load									
INPUT	<b>VOLTAGE RANGE</b>	90 ~ 264VAC    135 ~ 370VDC								
	<b>FREQUENCY RANGE</b>	47 ~ 63Hz								
	<b>EFFICIENCY (Typ.)</b>	76.5%	80%	80.5%	81%	82%	83%	85%	85%	85%
	<b>AC CURRENT</b>	0.5A / 100VAC								
	<b>INRUSH CURRENT (max.)</b>	45A / 230VAC								
<b>LEAKAGE CURRENT(max.)</b>	0.75mA / 240VAC									
PROTECTION	<b>OVERLOAD</b>	110 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed								
	<b>OVER VOLTAGE</b>	105 ~ 135% rated output voltage Protection type : Clamp by zener diode, output short								
ENVIRONMENT	<b>WORKING TEMP.</b>	0 ~ +50°C (Refer to output load derating curve)								
	<b>WORKING HUMIDITY</b>	20% ~ 90% RH non-condensing								
	<b>STORAGE TEMP., HUMIDITY</b>	-20 ~ +85°C, 10 ~ 95% RH								
	<b>TEMP. COEFFICIENT</b>	±0.03% / °C (0 ~ 50°C)								
<b>VIBRATION</b>	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes									
SAFETY & EMC (Note. 7)	<b>SAFETY STANDARDS</b>	UL60950-1, CSA C22.2, TUV EN60950-1, BSMI CNS14336								
	<b>WITHSTAND VOLTAGE</b>	I/P-O/P:4242VDC, I/P-FG:2121VDC								
	<b>ISOLATION RESISTANCE</b>	I/P-O/P, I/P-FG:100M Ohms / 500VDC / 25°C / 70% RH								
	<b>EMI CONDUCTION &amp; RADIATION</b>	Compliance to EN55022 class B, FCC PART 15 / CISPR22 class B, CNS13438 class B								
	<b>HARMONIC CURRENT</b>	Compliance to EN61000-3-2,3								
<b>EMS IMMUNITY</b>	Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A									
OTHERS	<b>MTBF</b>	500Khrs min. MIL-HDBK-217F(25°C)								
	<b>DIMENSION</b>	93*54*36mm (L*W*H)								
	<b>PACKING</b>	230g ; 60pcs / 15kg / CARTON								
CONNECTOR	<b>PLUG</b>	Standard type P1J: 2.1φ * 5.5φ * 11mm, tuning fork type, center positive for stock ; Other type available by customer requested								
	<b>CABLE</b>	Standard type UL1185 6ft (4FT for 5 ~ 12V output) for stock ; Other type available by customer requested								
NOTE	1.All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient. 2.DC voltage: The output voltage set at point measure by plug terminal & 50% load. 3.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor. 4.Tolerance: includes set up tolerance, line regulation, load regulation. 5.Line regulation is measured from low line to high line at rated load. 6.Load regulation is measured from 20% to 100% rated load 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.									

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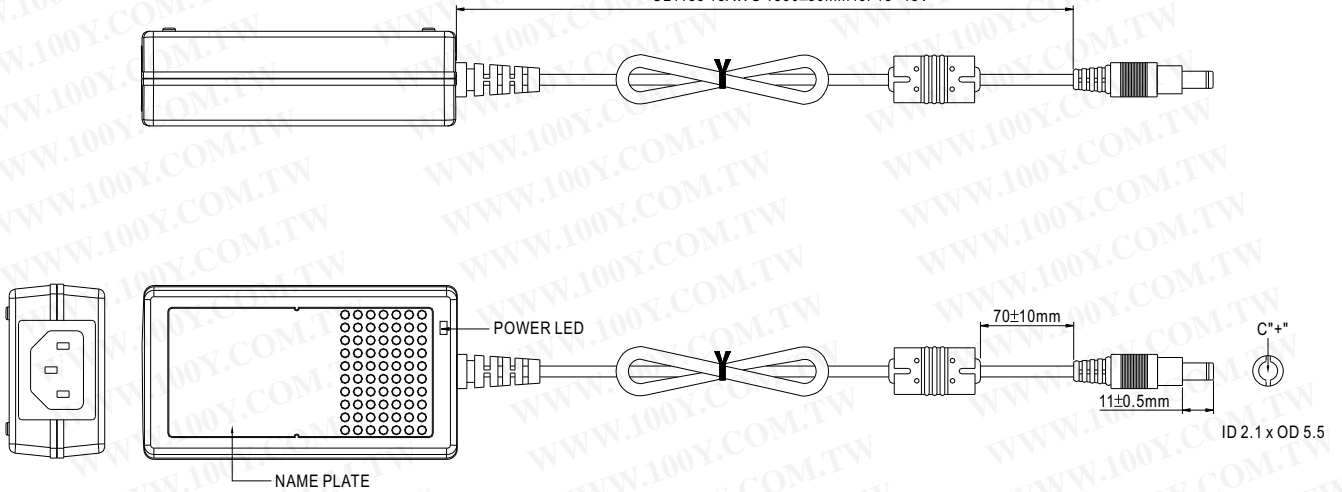
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■ Mechanical Specification

Unit:mm

UL1185 16AWG 1230±50mm for 5~12V  
 UL1185 18AWG 1830±50mm for 15~48V

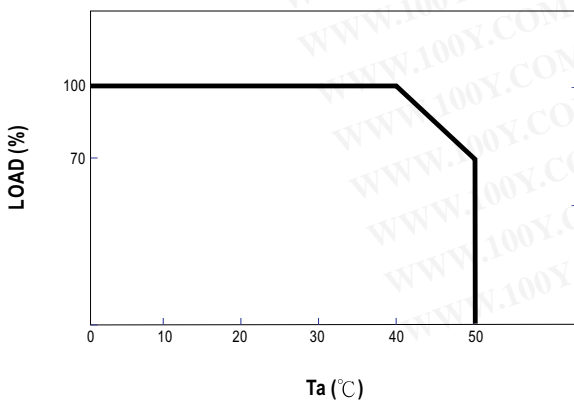


■ Plug Assignment

Standard plug: P1J (option)

P1J	
P/N	OUTPUT
CENTER	+

■ Derating Curve



■ Static Characteristics

