

■ Features :

- Universal AC input / Full range
- 2 pole EURO plug
- High efficiency up to 88%
- Low leakage current <50 μ A
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- Medical safety approved (2 \times MOPP between primary to secondary)
- Class II power (without earth pin)
- LED indicator for power on
- No load power consumption <0.1W
- ErP step2 compliant (level V)
- Meet EISA 2007 (Energy Independence and Security Act)
- Optional lock type DC plug
- 3 years warranty

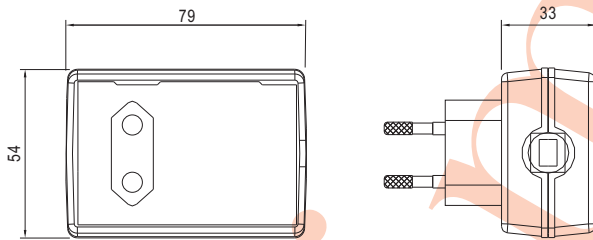
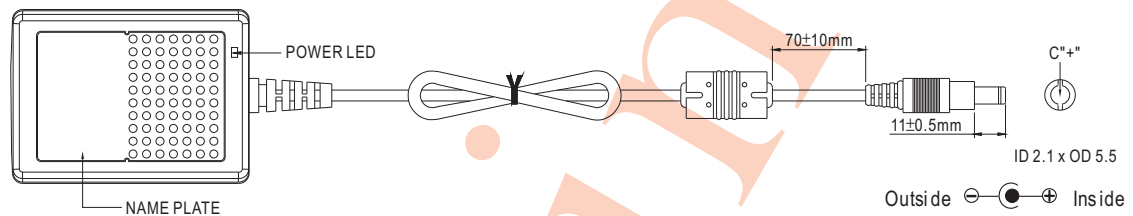
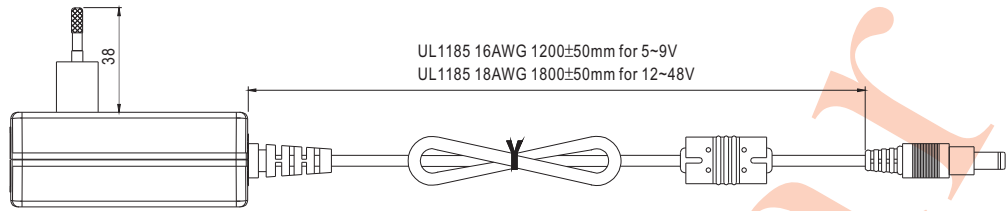


SPECIFICATION

ORDER NO.	GSM18E05-P1J	GSM18E07-P1J	GSM18E09-P1J	GSM18E12-P1J	GSM18E15-P1J	GSM18E18-P1J	GSM18E24-P1J	GSM18E48-P1J		
OUTPUT	SAFETY MODEL NO.		GSM18E05	GSM18E07	GSM18E09	GSM18E12	GSM18E15	GSM18E18	GSM18E24	GSM18E48
	DC VOLTAGE	Note.2	5V	7.5V	9V	12V	15V	18V	24V	48V
	RATED CURRENT		3A	2A	2A	1.5A	1.2A	1A	0.75A	0.375A
	CURRENT RANGE		0 ~ 3A	0 ~ 2A	0 ~ 2A	0 ~ 1.5A	0 ~ 1.2A	0 ~ 1A	0 ~ 0.75A	0 ~ 0.375A
	RATED POWER (max.)		15W	15W	18W	18W	18W	18W	18W	18W
	RIPPLE & NOISE (max.)	Note.3	60mVp-p	80mVp-p	80mVp-p	120mVp-p	120mVp-p	150mVp-p	180mVp-p	240mVp-p
	VOLTAGE TOLERANCE	Note.4	$\pm 5.0\%$	$\pm 5.0\%$	$\pm 5.0\%$	$\pm 3.0\%$	$\pm 3.0\%$	$\pm 3.0\%$	$\pm 2.0\%$	$\pm 2.0\%$
	LINE REGULATION	Note.5	$\pm 1.0\%$	$\pm 1.0\%$	$\pm 1.0\%$	$\pm 1.0\%$	$\pm 1.0\%$	$\pm 1.0\%$	$\pm 1.0\%$	$\pm 1.0\%$
	LOAD REGULATION		$\pm 5.0\%$	$\pm 5.0\%$	$\pm 5.0\%$	$\pm 3.0\%$	$\pm 3.0\%$	$\pm 3.0\%$	$\pm 2.0\%$	$\pm 2.0\%$
	SETUP, RISE TIME	Note.6	500ms, 30ms / 230VAC		1000ms, 30ms / 115VAC		at full load			
HOLD UP TIME (Typ.)		16ms / 230VAC		16ms / 115VAC		at full load				
INPUT	VOLTAGE RANGE		80 ~ 264VAC		113 ~ 370VDC					
	FREQUENCY RANGE		47 ~ 63Hz							
	EFFICIENCY (Typ.)		81%	83%	84%	86%	87%	87%	87%	88%
	AC CURRENT (Typ.)		0.5A / 115VAC		0.25A / 230VAC					
	INRUSH CURRENT (Typ.)		50A / 230VAC							
	LEAKAGE CURRENT(max.)		Touch current < 50 μ A/264VAC							
PROTECTION	OVERLOAD		105 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed							
	OVER VOLTAGE		5.25 ~ 7.5V	7.88 ~ 10.13V	9.45 ~ 12.6V	12.6 ~ 16.2V	15.75 ~ 20.25V	18.9 ~ 24.3V	25.2 ~ 32.4V	50.4 ~ 64.8V
		Protection type : Shut down o/p voltage, re-power on to recover								
ENVIRONMENT	WORKING TEMP.		-30 ~ +60 $^{\circ}$ C (Refer to "Derating Curve")							
	WORKING HUMIDITY		20% ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY		-40 ~ +85 $^{\circ}$ C, 10 ~ 95% RH							
	TEMP. COEFFICIENT		$\pm 0.03\%$ / $^{\circ}$ C (0~50 $^{\circ}$ C)							
	VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes							
SAFETY & EMC (Note. 7)	SAFETY STANDARDS		TUV EN60601-1 / 60601-1-11 approved							
	WITHSTAND VOLTAGE		I/P-O/P:4KVAC							
	ISOLATION RESISTANCE		I/P-O/P:100M Ohms / 500VDC / 25 $^{\circ}$ C / 70% RH							
	EMC EMISSION		Compliance to EN55011(CISPR11) class B, EN61000-3-2,3							
		EMC IMMUNITY								
		Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN60601-1-2, EN61204-3 medical level, criteria A								
OTHERS	MTBF		K hrs min. MIL-HDBK-217F(25 $^{\circ}$ C)							
	DIMENSION		79*54*33mm (L*W*H)							
	PACKING		Kg; 60pcs/ Kg/ CUFT							
CONNECTOR	PLUG		Standard type P1J: 2.1 ϕ * 5.5 ϕ * 11mm, tuning fork type, center positive for stock ; Other type available by customer requested							
	CABLE		See page 2 ; Other type available by customer requested							
NOTE	<ol style="list-style-type: none"> 1. All parameters are specified at 230VAC input, rated load, 25$^{\circ}$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 0.1μf & 47μf 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. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. 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. 									

■ Mechanical Specification

Unit:mm



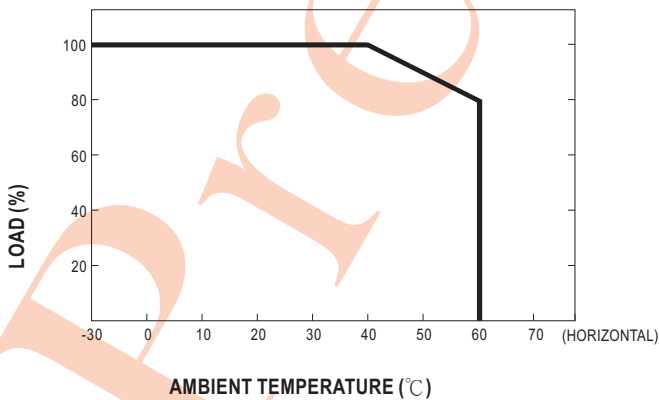
■ Plug Assignment

Standard plug: P1J

P1J	
P/N	OUTPUT
CENTER	+

Optional lock type plug: P2S
SWITCHCRAFT S761K plug equivalent

■ Derating Curve



■ Static Characteristics

