

■ Features :

- Universal AC input / Full range
- 2 pole EURO plug
- High efficiency up to 88%
- Low leakage current <50 $\mu$ 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

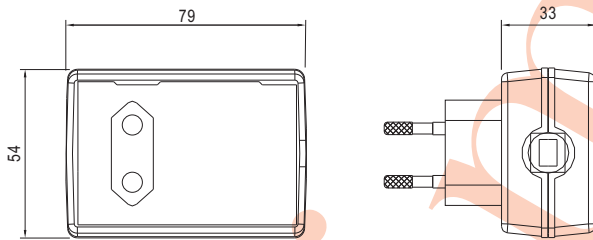
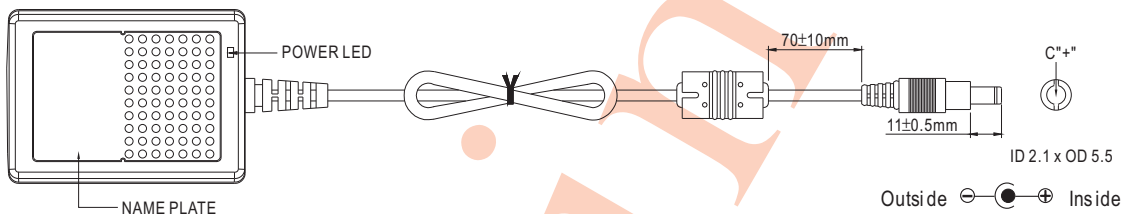
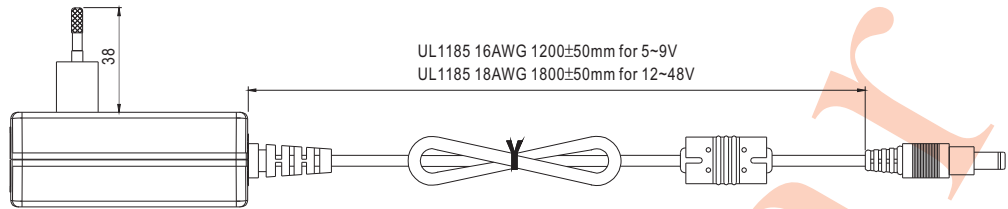


**SPECIFICATION**

ORDER NO.		GSM25E05-P1J	GSM25E07-P1J	GSM25E09-P1J	GSM25E12-P1J	GSM25E15-P1J	GSM25E18-P1J	GSM25E24-P1J	GSM25E48-P1J	
OUTPUT	SAFETY MODEL NO.	GSM25E05	GSM25E07	GSM25E09	GSM25E12	GSM25E15	GSM25E18	GSM25E24	GSM25E48	
	DC VOLTAGE <span style="float:right">Note.2</span>	5V	7.5V	9V	12V	15V	18V	24V	48V	
	RATED CURRENT	4A	2.93A	2.77A	2.08A	1.66A	1.38A	1.04A	0.52A	
	CURRENT RANGE	0 ~ 4A	0 ~ 2.93A	0 ~ 2.77A	0 ~ 2.08A	0 ~ 1.66A	0 ~ 1.38A	0 ~ 1.04A	0 ~ 0.52A	
	RATED POWER (max.)	20W	22W	25W	25W	25W	25W	25W	25W	
	RIPPLE & NOISE (max.) <span style="float:right">Note.3</span>	60mVp-p	80mVp-p	80mVp-p	120mVp-p	120mVp-p	150mVp-p	180mVp-p	240mVp-p	
	VOLTAGE TOLERANCE <span style="float:right">Note.4</span>	$\pm 5.0\%$	$\pm 5.0\%$	$\pm 5.0\%$	$\pm 3.0\%$	$\pm 3.0\%$	$\pm 3.0\%$	$\pm 2.0\%$	$\pm 2.0\%$	
	LINE REGULATION <span style="float:right">Note.5</span>	$\pm 1.0\%$	$\pm 1.0\%$	$\pm 1.0\%$	$\pm 1.0\%$	$\pm 1.0\%$	$\pm 1.0\%$	$\pm 1.0\%$	$\pm 1.0\%$	
	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 <span style="float:right">Note.6</span>	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.)	0.7A / 115VAC      0.35A / 230VAC								
	INRUSH CURRENT (Typ.)	50A / 230VAC								
	LEAKAGE CURRENT(max.)	Touch current < 50 $\mu$ A/264VAC								
PROTECTION	OVERLOAD	105 ~ 170% 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 (0~40 $^{\circ}$ 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								
OTHERS	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN60601-1-2, EN61204-3 medical level, criteria A								
	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 $\phi$ * 5.5 $\phi$ * 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"> <li>1. All parameters are specified at 230VAC input, rated load, 25<math>^{\circ}</math>C 70% RH ambient.</li> <li>2. DC voltage: The output voltage set at point measure by plug terminal &amp; 50% load.</li> <li>3. Ripple &amp; noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf &amp; 47uf capacitor.</li> <li>4. Tolerance: includes set up tolerance, line regulation, load regulation.</li> <li>5. Line regulation is measured from low line to high line at rated load.</li> <li>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.</li> <li>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.</li> </ol>									

## Mechanical Specification

Unit:mm



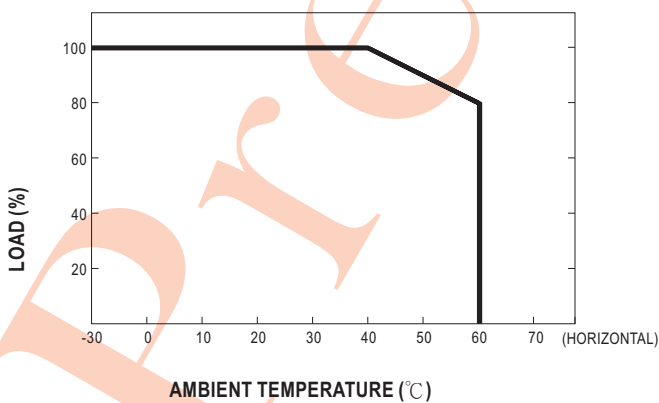
## Plug Assignment

Standard plug: P1J

P1J	
P/N	OUTPUT
CENTER	+

Optional lock type plug: P2S  
SWITCHCRAFT S761K plug equivalent

## Derating Curve



## Static Characteristics

