



40W AC-DC Single Output Medical Type

GSM40A series



■ Features :

- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14
- High efficiency up to 91%
- Low leakage current <100 μ A
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- Medical safety approved (MOPP level)
- Class I power (with 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)
- 3 years warranty

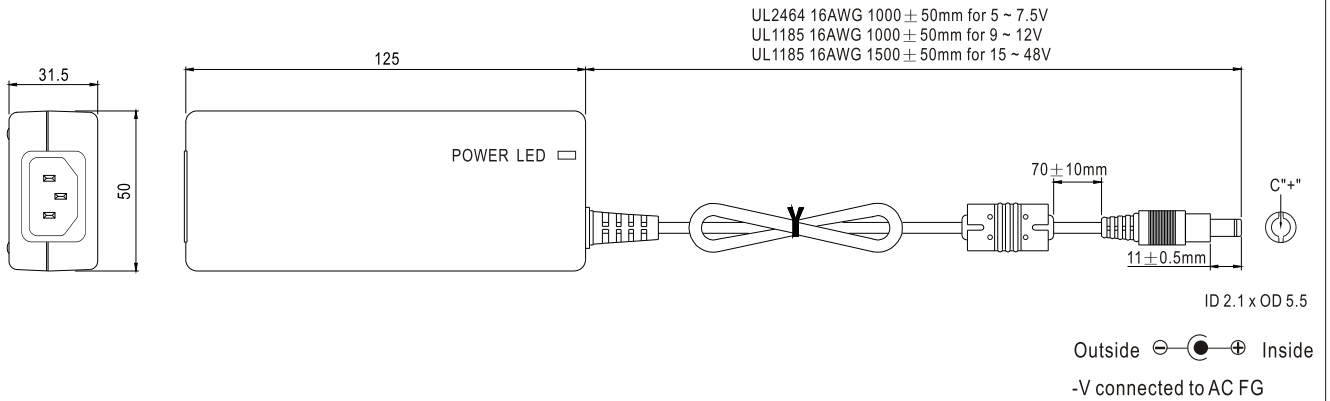


SPECIFICATION

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ORDER NO.		GSM40A05-P1J	GSM40A07-P1J	GSM40A09-P1J	GSM40A12-P1J	GSM40A15-P1J	GSM40A18-P1J	GSM40A24-P1J	GSM40A48-P1J
OUTPUT	SAFETY MODEL NO.	GSM40A05	GSM40A07	GSM40A09	GSM40A12	GSM40A15	GSM40A18	GSM40A24	GSM40A48
	DC VOLTAGE Note.2	5V	7.5V	9V	12V	15V	18V	24V	48V
	RATED CURRENT	5A	5.34A	4.45A	3.34A	2.67A	2.22A	1.67A	0.84A
	CURRENT RANGE	0.1 ~ 5A	0.1 ~ 5.34A	0.1 ~ 4.45A	0.1 ~ 3.34A	0.1 ~ 2.67A	0.1 ~ 2.22A	0.1 ~ 1.67A	0.1 ~ 0.84A
	RATED POWER (max.)	25W	40W	40W	40W	40W	40W	40W	40W
	RIPPLE & NOISE (max.) Note.3	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	150mVp-p	180mVp-p	240mVp-p
	VOLTAGE TOLERANCE Note.4	± 5.0%	± 5.0%	± 5.0%	± 3.0%	± 3.0%	± 3.0%	± 2.5%	± 2.5%
	LINE REGULATION Note.5	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%
	LOAD REGULATION	± 5.0%	± 5.0%	± 5.0%	± 3.0%	± 3.0%	± 3.0%	± 2.5%	± 2.5%
		SETUP, RISE TIME Note.7	1000ms, 30ms / 230VAC 1500ms, 30ms / 115VAC at full load						
	HOLD UP TIME (Typ.)	50ms / 230VAC 15ms / 115VAC at full load							
INPUT	VOLTAGE RANGE	80 ~ 264VAC 113 ~ 370VDC							
	FREQUENCY RANGE	47 ~ 63Hz							
	EFFICIENCY (Typ.)	81%	85.5%	86%	88%	88.5%	89.5%	90%	91%
	AC CURRENT (Typ.)	1A / 115VAC 0.5A / 230VAC							
	INRUSH CURRENT (Typ.)	65A / 230VAC							
	LEAKAGE CURRENT(max.)	Earth leakage current < 100μA/264VAC , Touch current < 100μA/264VAC							
PROTECTION	OVERLOAD	105 ~ 160% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed							
	OVER VOLTAGE	5.25 ~ 6.75V	7.88 ~ 10.13V	9.45 ~ 12.15V	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°C(Refer to "Derating Curve")							
	WORKING HUMIDITY	20% ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH							
	TEMP. COEFFICIENT	± 0.03% / °C (0~50°C)							
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes							
SAFETY & EMC (Note. 6)	SAFETY STANDARDS	ANSI/AAMI ES60601-1 / 60601-1-11, TUV EN60601-1 / 60601-1-11 approved							
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC I/P-FG:2KVAC O/P-FG:SHORT							
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG:100M Ohms / 500VDC / 25°C/70% RH							
	EMC EMISSION	Compliance to EN55011(CISPR11) class B, EN61000-3-2,3, FCC PART 15 class B							
	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	740K hrs min. MIL-HDBK-217F(25°C)							
	DIMENSION	125*50*31.5mm (L*W*H)							
	PACKING	0.29Kg; 40pcs/ 12.6 Kg/1.05CUFT							
CONNECTOR	PLUG	Standard type P1J: 2.1φ* 5.5φ* 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	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. 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. 7. 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.								

Mechanical Specification

Case No. 974A Unit:mm

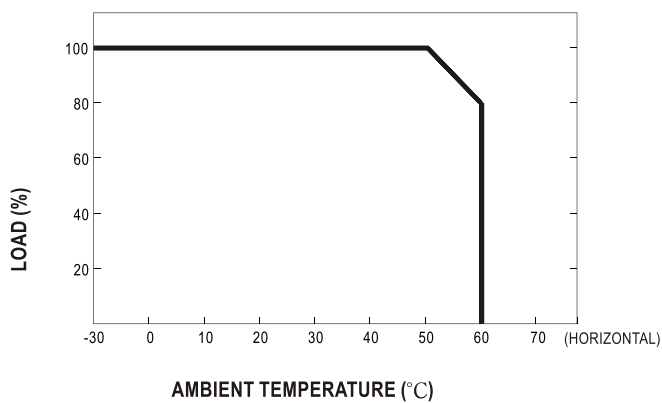


Plug Assignment

Standard plug: P1J

P1J	
P/N	OUTPUT
CENTER	+

Derating Curve



Static Characteristics

