



**■ Features**

- Universal AC input / Full range
- 2 pole AC inlet IEC320-C8
- Medical safety approved (2 x MOPP between primary to secondary)
- Suitable for BF application with appropriate system consideration
- Low leakage current <50uA
- No load power consumption<0.1W
- Energy efficiency level VI(Except 5~9V for Level V)
- Comply with EISA 2007/DoE,NRCan, AU/NZ MEPS, EU ErP and meet CoC Version 5
- Built-in active PFC function
- High efficiency up to 91.5%
- Fanless design with -30~+60°C working temperature
- Class II power (without earth pin)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fully enclosed plastic case
- LED indicator for power on
- 100% full load burn-in test
- Optional lock type DC plug
- 3 years warranty

**■ Applications**

- Mobile clinical workstation
- Oral irrigator
- Portable hemodialysis machine
- Breath Machine
- Medical computer monitor

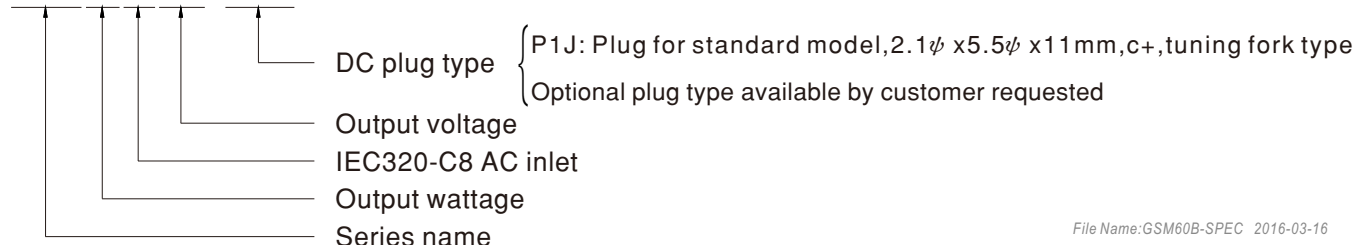
**■ Description**

GSM60B is a highly reliable, 60W desktop style single-output green medical adaptor series. This product is equipped with a 2-pin (no FG) standard IEC320-C8 power plug, adopting the input range from 80VAC to 264VAC. The entire series supplies different output voltages between 5VDC and 48VDC that can satisfy the demands for various kinds of medical electrical devices. The circuitry design meets the international medical standards (2\*MOPP), having an ultra low leakage current (<50 uA), fitting the medical devices in direct electrical contact with the patients.

With the efficiency up to 91.5% and the extremely low no-load power consumption below 0.1W, GSM60B is compliant with USA EISA 2007/DoE, Canada NRCan, Australia and New Zealand MEPS, 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, providing the double insulation that effectively prevents electrical shock. GSM60B is approved with the international medical safety certificates.

**■ Model Encoding**

**GSM60B 05 - P1J**

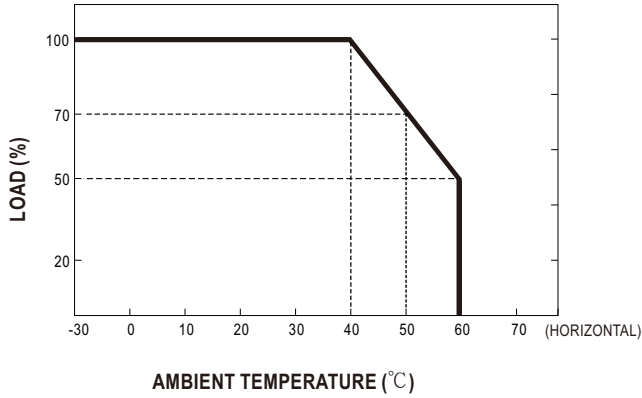




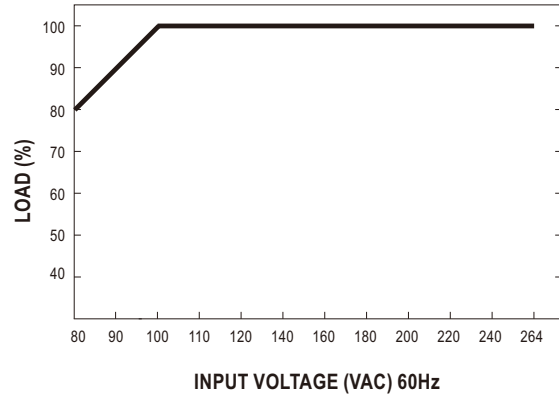
**SPECIFICATION**

ORDER NO.	GSM60B05-P1J	GSM60B07-P1J	GSM60B09-P1J	GSM60B12-P1J	GSM60B15-P1J	GSM60B18-P1J	GSM60B24-P1J	GSM60B48-P1J	
OUTPUT	SAFETY MODEL NO.	GSM60B05	GSM60B07	GSM60B09	GSM60B12	GSM60B15	GSM60B18	GSM60B24	GSM60B48
	DC VOLTAGE <span style="float:right">Note.2</span>	5V	7.5V	9V	12V	15V	18V	24V	48V
	RATED CURRENT	6A	6A	6A	5A	4A	3.33A	2.5A	1.25A
	CURRENT RANGE	0 ~ 6A	0 ~ 6A	0 ~ 6A	0 ~ 5A	0 ~ 4A	0 ~ 3.33A	0 ~ 2.5A	0 ~ 1.25A
	RATED POWER (max.)	30W	45W	54W	60W	60W	60W	60W	60W
	RIPPLE & NOISE (max.) <span style="float:right">Note.3</span>	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	150mVp-p	180mVp-p	240mVp-p
	VOLTAGE TOLERANCE <span style="float:right">Note.4</span>	± 5.0%	± 5.0%	± 5.0%	± 3.0%	± 3.0%	± 3.0%	± 3.0%	± 2.5%
	LINE REGULATION <span style="float:right">Note.5</span>	± 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%	± 3.0%	± 2.5%
	SETUP, RISE TIME <span style="float:right">Note.6</span>	1000ms, 30ms / 230VAC      1500ms, 30ms / 115VAC at full load							
HOLD UP TIME (Typ.)	50ms / 230VAC      15ms / 115VAC at full load								
INPUT	VOLTAGE RANGE <span style="float:right">Note.7</span>	80 ~ 264VAC    120 ~ 370VDC							
	FREQUENCY RANGE	47 ~ 63Hz							
	EFFICIENCY (Typ.)	81.5%	86%	87.5%	88%	88.5%	89%	90%	91.5%
	AC CURRENT (Typ.)	1.4A / 115VAC		1A / 230VAC					
	INRUSH CURRENT (Typ.)	30A / 115VAC		65A / 230VAC					
LEAKAGE CURRENT(max.)	Touch current < 50µA/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
	OVER TEMPERATURE	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 ~ 40°C)							
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes							
SAFETY & EMC (Note. 8)	SAFETY STANDARDS	ANSI/AAMI ES60601-1 / ES60601-1-11, TUV EN60601-1 / 60601-1-11 approved							
	ISOLATION LEVEL	Primary-Secondary: 2xMOPP							
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC							
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH							
	EMC EMISSION	Compliance to EN55011(CISPR11) class B, EN61000-3-2,3, FCC PART 15 class B,CAN ICES-3(B)/NMB-3(B)							
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	720K hrs min. MIL-HDBK-217F(25°C)							
	DIMENSION	125*50*31.5mm (L*W*H)							
CONNECTOR	PACKING	0.32Kg; 40pcs/13.8Kg/1.05CUFT							
	PLUG	See page 3 ; Other type available by customer requested							
	CABLE	See page 3 ; Other type available by customer requested							
NOTE	<ol style="list-style-type: none"> <li>All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient.</li> <li>DC voltage: The output voltage set at point measure by plug terminal &amp; 50% load.</li> <li>Ripple &amp; noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf &amp; 47uf capacitor.</li> <li>Tolerance: includes set up tolerance, line regulation, load regulation.</li> <li>Line regulation is measured from low line to high line at rated load.</li> <li>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>Derating may be needed under low input voltages. Pleas check the derating curve for more details.</li> <li>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>)</li> </ol>								

### Derating Curve

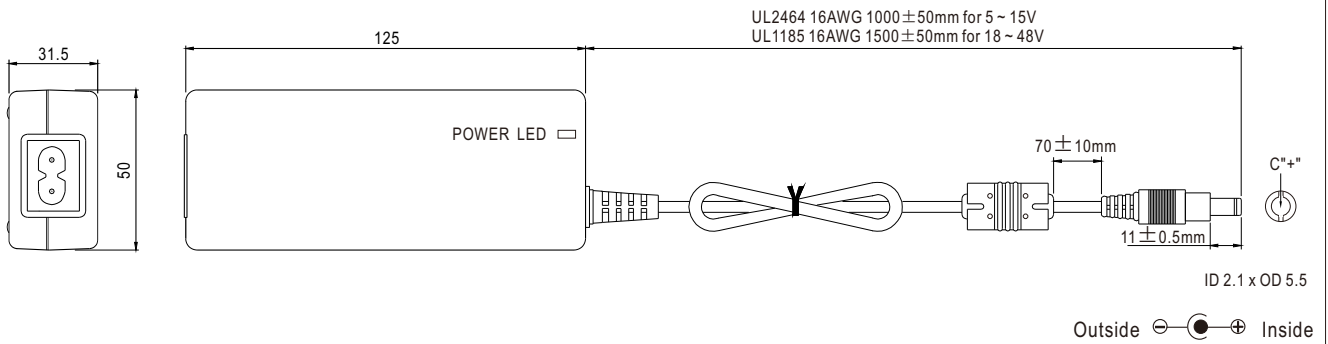


### Static Characteristics



### Mechanical Specification

Case No. GSM60B Unit:mm



### Plug Assignment

Standard plug: P1J

P1J	
P/N	OUTPUT
CENTER	+

Optional lock type plug: P2S

SWITCHCRAFT S761K plug equivalent

### Installation Manual

Please refer to : <http://www.meanwell.com/webnet/search/InstallationSearch.html>

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Desktop AC Adapters](#) category:*

*Click to view products by [Mean Well](#) manufacturer:*

Other Similar products are found below :

[YS50-1903150](#) [ADP-40KD BBBM](#) [DTA27-3X-W-5](#) [212A2136](#) [ADP485-01](#) [SWA-1202](#) [SWA-1501](#) [212A2220](#) [212A2220-02](#) [212A2220-04](#)  
[FWE030015A-10A](#) [TRH100A135-02E12-Level-VI](#) [TRH100A180-11E13-Level-VI](#) [TRH100A240-01E13-Level-VI](#) [TRH100A280-01E13-](#)  
[Level-VI](#) [TRH100A280-11E13-Level-VI](#) [TRH50A120-02E01-Level-VI](#) [TRH50A120-12E01-Level-VI](#) [TRH50A120-40E01-Level-VI](#)  
[TRH50A150-12E12-Level-VI](#) [TRH50A180-11E03-Level-VI](#) [TRH50A240-02E03-Level-VI](#) [TRH70A120-11E01-Level-VI](#) [TRH70A150-](#)  
[12E02-Level-VI](#) [TRH70A240-11E03-Level-VI](#) [416FG41017](#) [DTA27-0512FWX-W3](#) [TRH100A120-02E12-Level-VI](#) [TRH100A150-11E12-](#)  
[Level-VI](#) [TRH100A180-02E13-Level-VI](#) [TRH100A240-02E13-Level-VI](#) [TRH100A240-36E13-Level-VI](#) [TRH100A280-12E13-Level-VI](#)  
[TRH100A480-11E13-Level-VI](#) [TRH100A480-12E13-Level-VI](#) [TRH50A120-11E01-Level-VI](#) [TRH50A120-49E01-Level-VI](#) [TRH50A150-](#)  
[11E02-Level-VI](#) [TRH50A150-12E02-Level-VI](#) [TRH70A120-01E01-Level-VI](#) [TRH70A480-02E03-Level-VI](#) [KR8-PS01](#) [1894875](#)  
[FWE030012A-10A](#) [FWE050024B-10A](#) [820A4080G](#) [825A0052-03](#) [825A0057-03](#) [SWA-1704W](#) [AD5012N2LM-\(401\)](#)