



■ Features

- Interchangeable AC plugs (plug kit sold sperately)
- Medical safety approved (2 × MOPP between primary to secondary)
- Suitable for BF application with appropriate system consideration
- Low leakage current <100 μ A
- No load power consumption< 0.1W
- **Energy efficiency Level VI**
- Comply with EISA 2007/DoE and EU ErP
- Class II power (without earth pin)
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- Optional lock type DC plug
- 100% full load burn-in test
- 3 years warranty

■ Applications

- Blood glucose meter
- Blood pressure meter
- Nebulizer
- Inhaler
- Portable medical device
- Sleep apnea devices

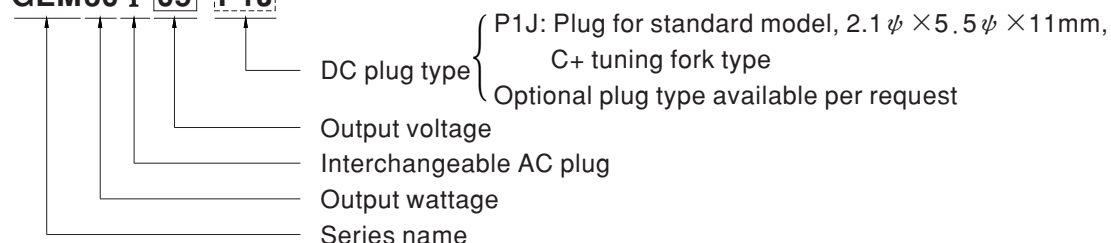
■ Description

GEM30I is a highly reliable, 30W wall-mounted style single-output green medical adaptor series, which is compact and convenient for carry. This product is equipped with an interchangeable AC plug (4 types, including European type, USA type, U.K. type and Australian type) that makes it very suitable for businessmen to use in the major countries around the globe. GEM30I is a class II power unit (without FG), accepting the input range from 80VAC to 264VAC that it can satisfy the demands for various types of medical electrical devices. The circuitry design meets the international medical standards (2*MOPP), having an ultra low leakage current (<100 μ A), fitting the medical devices in direct electrical contact with the patients.

With the working efficiency up to 90% and the extremely low no-load power consumption below 0.1W, GEM30I is compliant with the latest USA energy regulation EISA 2007/DoE(Level VI) and EU ErP. The supreme feature allows the adaptor to save the energy when it is under either the operating mode or the standby mode. The entire series is approved for international safety regulations; moreover, it adopts the 94V-0 flame retardant plastic case that it can effectively prevent users from electric hazard.

■ Model Encoding

GEM30 I 05 -P1J





30W AC-DC High Reliability Interchangeable Medical Adaptor **GEM30I** series

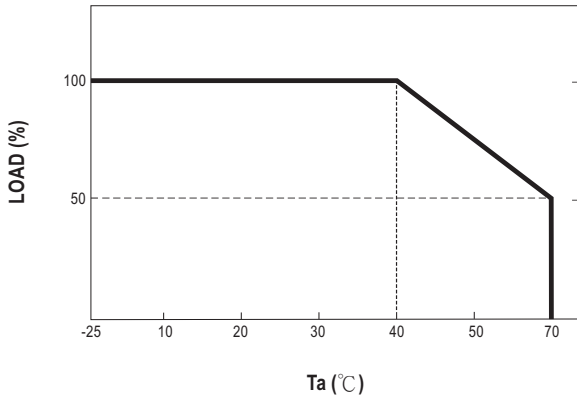
Interchangeable AC plug Specifically for GEM18I/30I/40I

TYPE					
	Australian type	U.K type	European type	US type	Mix four type
ORDER NO.	AC plug-AU2	AC plug-UK2	AC plug-EU2	AC plug-US2	AC plug-MIX2

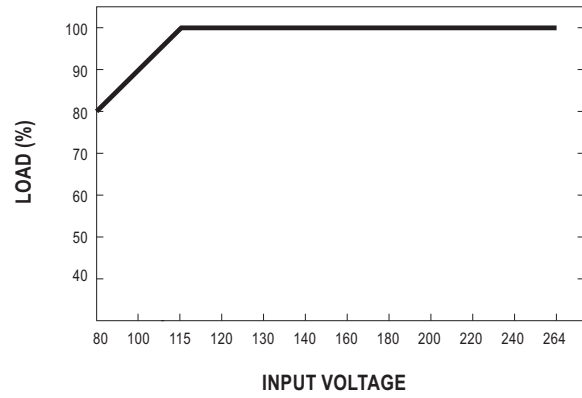
SPECIFICATION

ORDER NO.	GEM30I05-P1J	GEM30I07-P1J	GEM30I09-P1J	GEM30I12-P1J	GEM30I15-P1J	GEM30I18-P1J	GEM30I24-P1J	GEM30I48-P1J	
OUTPUT	SAFETY MODEL NO.	GEM30I05	GEM30I07	GEM30I09	GEM30I12	GEM30I15	GEM30I18	GEM30I48	
	DC VOLTAGE Note.2	5V	7.5V	9V	12V	15V	18V	24V	
	RATED CURRENT	4A	3.33A	3.33A	2.5A	2A	1.66A	1.25A	
	CURRENT RANGE	0 ~ 4A	0 ~ 3.33A	0 ~ 3.33A	0 ~ 2.5A	0 ~ 2A	0 ~ 1.66A	0 ~ 1.25A	
	RATED POWER (max.)	20W	25W	30W	30W	30W	30W	30W	
	RIPPLE & NOISE (max.) Note.3	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	
	VOLTAGE TOLERANCE Note.4	± 5.0%	± 5.0%	± 5.0%	± 3.0%	± 3.0%	± 2.0%	± 2.0%	
	LINE REGULATION Note.5	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	
	LOAD REGULATION Note.6	± 5.0%	± 5.0%	± 5.0%	± 3.0%	± 3.0%	± 2.0%	± 2.0%	
SETUP, RISE, HOLD UP TIME	500ms, 100ms, 16ms/230VAC 500ms, 100ms, 16ms/115VAC at full load								
INPUT	VOLTAGE RANGE Note.7	80 ~ 264VAC 113 ~ 370VDC							
	FREQUENCY RANGE	47 ~ 63Hz							
	EFFICIENCY (Typ.)	82%	86%	87%	87%	87%	88%	88.5%	90%
	AC CURRENT	1A / 115VAC 0.6A / 230VAC							
	INRUSH CURRENT (max.)	30A / 115VAC 65A / 230VAC							
LEAKAGE CURRENT(max.)	Touch current < 100µA/264VAC								
PROTECTION	OVERLOAD	120 ~ 200% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed							
	OVER VOLTAGE	110 ~ 140% rated output voltage Protection type : Clamp by zener diode, output short							
ENVIRONMENT	WORKING TEMP.	-25 ~ +70°C (Refer to "Derating Curve")							
	WORKING HUMIDITY	20% ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH							
	TEMP. COEFFICIENT	± 0.03% / °C (0 ~ 40°C)							
SAFETY & EMC (Note. 8)	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes							
	SAFETY STANDARDS	ANSI/AAMI ES60601-1 / 60601-1-11, TUV EN60601-1 / 60601-1-11 approved							
	WITHSTAND VOLTAGE	I/P-O/P:5656VDC							
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH							
	EMC EMISSION	Compliance to EN55011 class B, EN61000-3-2,3, FCC PART 15 / CISPR22 class B							
OTHERS	EMC IMMUNITY	Compliance to EN61000-4,-2,3,4,5,6,8,11, light industry level, criteria A							
	LIFE	3 years : 100% load 40°C, 12hours / day							
	MTBF	400Khrs min. MIL-HDBK-217F(25°C)							
	DIMENSION	75.5*39.1*56.2mm (L*W*H)							
CONNECTOR	PACKING	192g ; 60pcs / 12.5kg / CARTON							
	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"> All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient. DC voltage: The output voltage set at point measure by plug terminal & 50% load. Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor. Tolerance: includes set up tolerance, line regulation, load regulation. Line regulation is measured from low line to high line at rated load. Load regulation is measured from 10% to 100% rated load. Derating may be needed under low input voltage. Please check the derating curve for more details. 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 http://www.meanwell.com) 								

Derating Curve



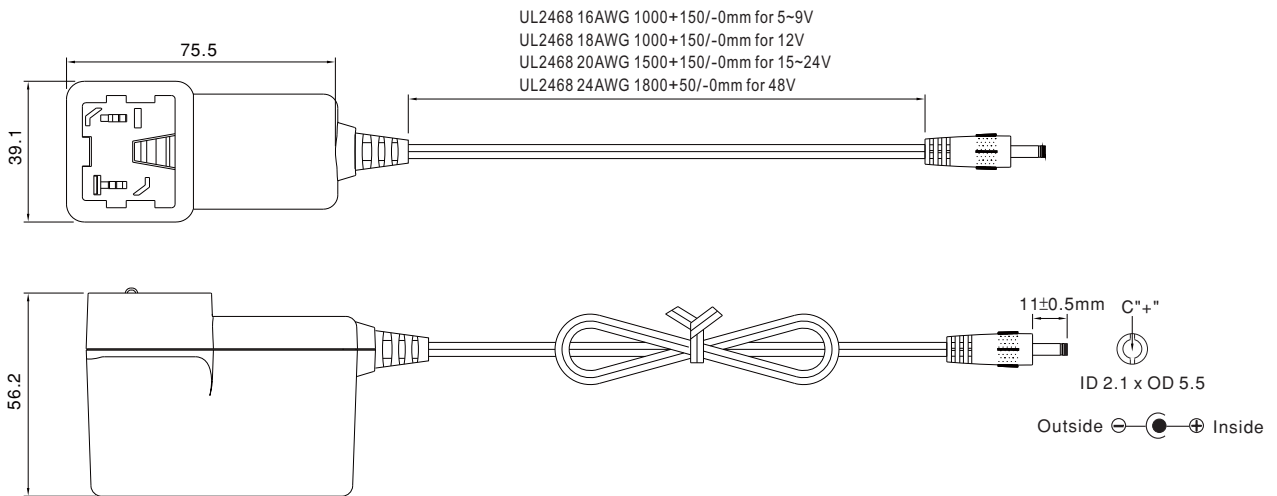
Static Characteristics



Mechanical Specification

Unit:mm

TYPE				
	Australian type	U.K type	European type	US type



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/manual.html>