



Features

- Interchangeable AC plugs (plug kit sold sperately)
- Medical safety approved (2 x MOPP) accroding to ANSI/AAMI ES60601-1/ES60601-1-11,BS EN/EN60601-1/BS EN/EN60601-1-11
- Extremely Low leakage current
- No load power consumption< 0.1W
- **Energy efficiency Level VI**
- -25~+70°C wide range working temperature
- Class II power (no earth pin)
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- Various DC plug quick adapter accessory available (Plug kit sold sperately, please refer to : https://www.meanwell.com/upload/pdf/DC_plug.pdf)
- 3 years warranty

Applications

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

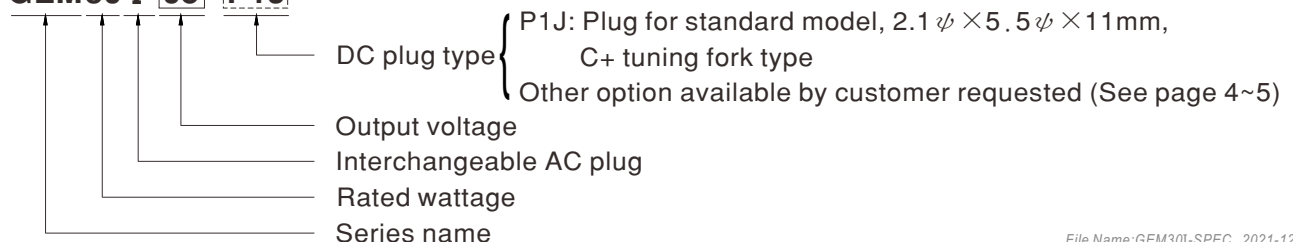
Description

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 (no 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 (<100μA), 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





Interchangeable AC plug Specifically for GEM06/12/18/30/40/60I

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

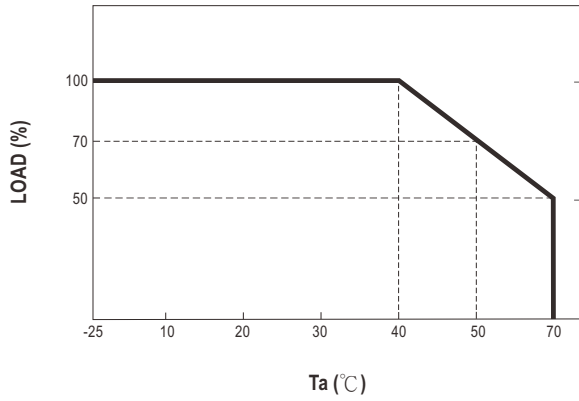
ORDER NO.	GEM30I05-P1J	GEM30I07-P1J	GEM30I09-P1J	GEM30I12-P1J	GEM30I15-P1J	GEM30I18-P1J	GEM30I24-P1J	GEM30I48-P1J		
OUTPUT	SAFETY MODEL NO.	GEM30I05	GEM30I07	GEM30I09	GEM30I12	GEM30I15	GEM30I18	GEM30I48		
	DC VOLTAGE <small>Note.2</small>	5V	7.5V	9V	12V	15V	18V	24V		
	RATED CURRENT	4A	3.33A	3.33A	2.5A	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.) <small>Note.3</small>	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p		
	VOLTAGE TOLERANCE <small>Note.4</small>	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±2.0%	±2.0%		
	LINE REGULATION <small>Note.5</small>	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
LOAD REGULATION <small>Note.6</small>	±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 <small>Note.7</small>	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.)	Cold start 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	-25 ~ +85°C, 10 ~ 95% RH non-condensing								
	TEMP. COEFFICIENT	±0.03% / °C (0 ~ 40°C)								
SAFETY & EMC <small>(Note. 8)</small>	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 BS EN/EN60601-1 / 60601-1-11, EAC TP TC 004 approved								
	ISOLATION LEVEL	Primary - Secondary: 2 x MOPP								
	WITHSTAND VOLTAGE	I/P-O/P:5656VDC								
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH								
	EMC EMISSION	Parameter	Standard					Test Level / Note		
		Conducted emission	BS EN/EN55011 (CISPR11),FCC PART 18					Class B		
		Radiated emission	BS EN/EN55011 (CISPR11),FCC PART 18					Class B		
		Harmonic current	BS EN/EN61000-3-2					Class A		
	Voltage flicker	BS EN/EN61000-3-3					-----			
EMC IMMUNITY	BS EN/EN60601-1-2, BS EN/EN61204-3									
	Parameter	Standard					Test Level / Note			
	ESD	BS EN/EN61000-4-2					Level 4, 15KV air ; Level 4, 8KV contact			
	RF field susceptibility	BS EN/EN61000-4-3					Level 3, 10V/m(80MHz~2.7GHz) Table 9, 9~28V/m(385MHz~5.78GHz)			
	EFT bursts	BS EN/EN61000-4-4					Level 3, 2KV			
	Surge susceptibility	BS EN/EN61000-4-5					Level 3, 1KV/Line-Line			
	Conducted susceptibility	BS EN/EN61000-4-6					Level 2, 3V			
Magnetic field immunity	BS EN/EN61000-4-8					Level 4, 30A/m				
Voltage dip, interruption	BS EN/EN61000-4-11					>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods				
OTHERS	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)								
	PACKING	192g ; 60pcs / 12.5kg / CARTON								
CONNECTOR	PLUG	See page 4-5 ; other type available by customer requested								
	CABLE	See page 4-5 ; other type available by customer requested								
NOTE	<p>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 0.1µf & 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.Load regulation is measured from 10% to 100% rated load. 7.Derating may be needed under low input voltage. Please check the derating curve for more details. 8.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)</p> <p>※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</p>									



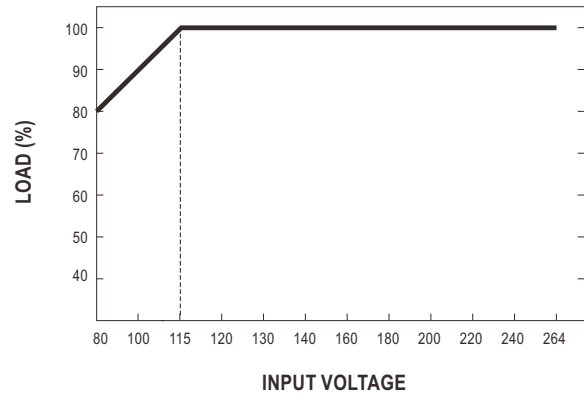
30W AC-DC Reliable Green Interchangeable Medical Adaptor

GEM30I series

■ Derating Curve



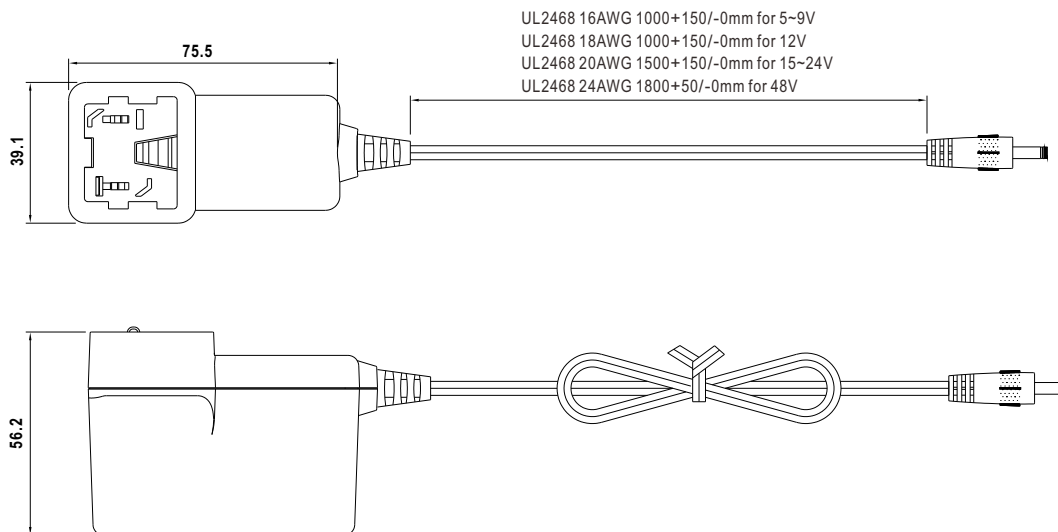
■ Static Characteristics



■ Mechanical Specification

Unit:mm

TYPE	Australian type	U.K type	European type	US type



■ DC output plug

◎ Standard plug: P1J

Unit:mm

P1J			Pin Assignment
			Outside Inside

◎ DC plug changeable through:

- (1) Customization of the standard part with an optional DC plug according to the table (MOQ applicable)
- (2) Quick adapter accessory (sold separately without MOQ)

Please refer to below table and online selection guide : https://www.meanwell.com/upload/pdf/DC_plug.pdf

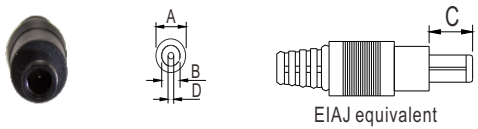
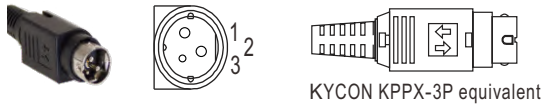
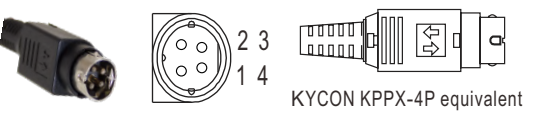
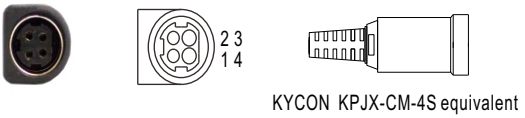
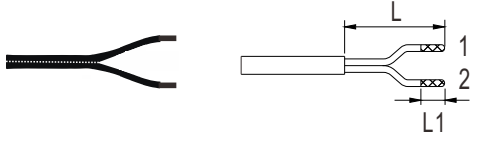
Example quick adapter accessory:



◎ Optional DC plug: (Available in customized cable or quick adapter)

Tuning Fork Style		Type No.	A OD	B ID	C L	Quick Adapter Accessory	
		 (Straight)	P1I	5.5	2.1	9.5	Available (Current rating: 7.5A max.)
		P1L	5.5	2.5	9.5		
		P1M	5.5	2.5	11.0		
		P1IR	5.5	2.1	9.5		
		P1JR	5.5	2.1	11.0		
		P1LR	5.5	2.5	9.5		
		P1MR	5.5	2.5	11.0		
Barrel Style		Type No.	A OD	B ID	C L	None	
		 (Straight)	P2I	5.5	2.1		9.5
		P2J	5.5	2.1	11.0		
		P2L	5.5	2.5	9.5		
		P2M	5.5	2.5	11.0		
		P2IR	5.5	2.1	9.5		
		P2JR	5.5	2.1	11.0		
		P2LR	5.5	2.5	9.5		
		P2MR	5.5	2.5	11.0		
Lock Style		Type No.	A OD	B ID	C L	None	
		 Floating Locking SWITCHCRAFT original or equivalent	P2S(S761K)	5.53	2.03		12.06
		P2K(761K)	5.53	2.54	12.06		
		P2C(S760K)	5.53	2.03	9.52		
		P2D(760K)	5.53	2.54	9.52		
		Min. Pin Style		Type No.	A OD	B ID	C L
		 EIAJ equivalent	P3A	2.35	0.7	11.0	
		P3B	4.0	1.7	11.0		
		P3C	4.75	1.7	11.0		



Center Pin Style	Type No.	A	B	C	D	Quick Adapter Accessory	
		OD	ID	L	Center Pin		
 <p>EIAJ equivalent</p>	P4A	5.5	3.4	11.0	1.0	<p>Available (Current rating: 7.5A max.)</p>	
	P4B	6.5	4.4	11.0	1.4		
	P4C	7.4	5.1	11.0	0.6		
Min. DIN 3 Pin with Lock (male)	Type No.	Pin Assignment		<p>Available (Current rating: 7.5A max.)</p>			
 <p>KYCON KPPX-3P equivalent</p>	R6B	PIN No.	Output				
		1	+Vo				
		2	-Vo				
<th>Min. DIN 4 Pin with Lock (male)</th> <th>Type No.</th> <th colspan="2">Pin Assignment</th> <th colspan="3" rowspan="5"> <p>Available (Current rating: 7.5A max.)</p> </th>	Min. DIN 4 Pin with Lock (male)	Type No.	Pin Assignment		<p>Available (Current rating: 7.5A max.)</p>		
	 <p>KYCON KPPX-4P equivalent</p>	R7B	PIN No.	Output			
			1	+Vo			
			2	-Vo			
3			-Vo				
<th>Min. DIN 4 Pin with Lock (female)</th> <th>Type No.</th> <th colspan="2">Pin Assignment</th> <th colspan="3" rowspan="5"> <p>None</p> </th>	Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment		<p>None</p>		
	 <p>KYCON KPJX-CM-4S equivalent</p>	R7BF	PIN No.	Output			
			1	+Vo			
			2	-Vo			
3			-Vo				
<th>Stripped and tinned leads</th> <th>Type No.</th> <th colspan="2">Pin Assignment</th> <th colspan="3" rowspan="3"> <p>None</p> </th>	Stripped and tinned leads	Type No.	Pin Assignment		<p>None</p>		
	 <p>Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>10</u> mm)</p>	by customer	PIN No.	Output			
1 (Ribbed)			+Vo				
		2 (Letter)	-Vo				

■ **Installation Manual**

Please refer to : <http://www.meanwell.com/manual.html>

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