







(USB connection)















Features

- Interchangeable AC plugs (plug kit sold sperately)
- · Medical safety approved (2 x MOPP) accroding to ANSI/AAMI ES60601-1/ES60601-1-11, EN60601-1/EN60601-1-11
- Extremely low leakage current
- No load power consumption < 0.075W(<0.1W for 18V/48V)
- Energy efficiency Level VI
- -20~+70°C wide range working temperature
- Class II power (no earth pin)
- · Protections: Short circuit / Overload / Over voltage
- · Fully enclosed plastic case
- · 3 years warranty

Applications

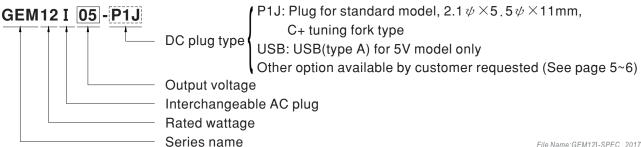
- · Blood glucose meter
- Blood pressure meter
- Nebulizer
- Inhaler
- · Portable medical device
- Sleep apnea devices

Description

GEM12I is a highly reliable, 12W 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. GEM12I 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 87% and the extremely low no-load power consumption below 0.075W, GEM12I 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





12W AC-DC Reliable Green Interchangeable Medical Adaptor **GE M12I** series

Interchangeable AC plug Specifically for GEM12I/18I/30I/40I

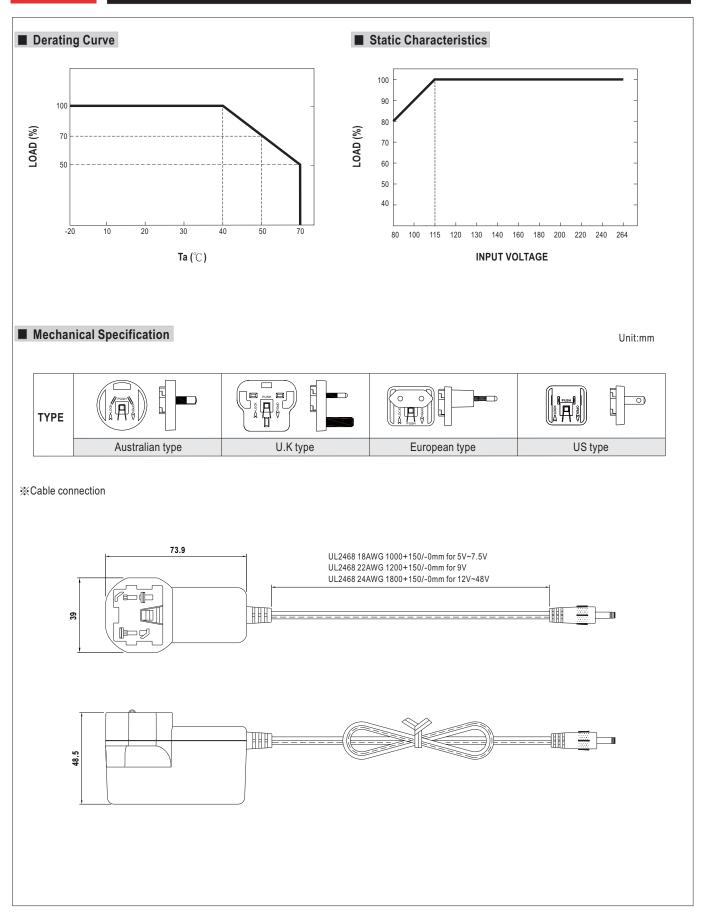
ТҮРЕ						
	Australian type	U.K type	European type	US type	Mix four type	
ORDER NO.	AC plug-AU2 AC plug-UK2		AC plug-EU2	AC plug-US2	AC plug-MIX2	

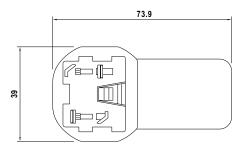
SPECIFICATION

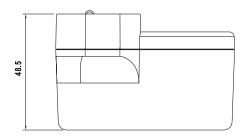
ORDER NO.		GEM12I05- =P1J USB	GEM12I07-P1J	GEM12I09-P1J	GEM12I12-P1J	GEM12I15-P1	GEM12I18-P1J	GEM12I24-P1J	GEM12I48-P		
	SAFETY MODEL NO.	GEM12I05	GEM12I07	GEM12I09	GEM12I12	GEM12I15	GEM12I18	GEM12I24	GEM12I48		
	DC VOLTAGE Note.2	5V	7.5V	9V	12V	15V	18V	24V	48V		
OUTPUT	RATED CURRENT	2.4A	1.6A	1.33A	1A	0.8A	0.66A	0.5A	0.25A		
	CURRENT RANGE	0 ~ 2.4A	0 ~ 1.6A	0 ~ 1.33A	0 ~ 1A	0 ~ 0.8A	0 ~ 0.66A	0 ~ 0.5A	0 ~ 0.25A		
	RATED POWER (max.)	12W	12W	12W	12W	12W	12W	12W	12W		
	RIPPLE & NOISE (max.) Note.3		60mVp-p	60mVp-p	80mVp-p	80mVp-p	80mVp-p	80mVp-p	100mVp-p		
	VOLTAGE TOLERANCE Note.4		±5.0%	±4.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%		
		±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
									±2.0%		
		±5.0%	±5.0%	±4.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%		
	SETUP, RISE, HOLD UP TIME				, 16ms/115VAC	at full load					
		80 ~ 264VAC 113 ~ 370VDC									
	FREQUENCY RANGE	47 ~ 63Hz			1			ı			
NPUT	EFFICIENCY (Typ.)	80%	82%	82%	82.5%	84%	85%	85%	87%		
• .	AC CURRENT	0.4A / 115VAC 0.2A / 230VAC									
	INRUSH CURRENT (max.)	Cold start 30A / 115VAC 60A / 230VAC									
	LEAKAGE CURRENT(max.)	Touch current < 100µA/264VAC									
	OVERLOAD	110 ~ 200% rated output power									
DOTECTION	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed									
PROTECTION		110 ~ 140% rated output voltage									
	OVER VOLTAGE	Protection type : Clamp by zener diode, output short									
	WORKING TEMP.	-20 ~ +70°C (Refer to "Derating Curve")									
	WORKING HUMIDITY	20% ~ 90% RH non-condensing									
NVIRONMENT	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH non-condensing									
	TEMP. COEFFICIENT	±0.03% /°C (0~40°C)									
	VIBRATION	±0.03% / C (0 ~ 40 C) 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes									
		TUV EN60601-1/EN60601-1-11,ANSI/ AAMI ES60601-1/ES60601-1-11(3.1 version), CAN/CSA-C22 3 rd edition approved									
	SAFETY STANDARDS	GEM12I05-USB without EN60601-1-11, ANSI/AAMII ES60601-1-11									
	ISOLATION LEVEL	Pimary - Secondary: 2 x MOPP									
	WITHSTAND VOLTAGE	I/P-O/P:5656VDC									
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH									
		Parameter Standard Test Level / Note									
		Conducted emission EN55011 (CISPR11),FCC PART 15 / CISPR22 Class B									
	EMC EMISSION	Radiated emission EN55011 (CISPR11),FCC PART 15 / CISPR22 Class B									
	EMC EMISSION	Harmonic curre	22.1								
SAFETY &			5111		61000-3-2						
MC		Voltage flicker	00004 4 0 ENC4		1000-3-3		· -				
Note. 8)		EN55024 , EN60601-1-2, EN61204-3 Parameter Standard Test Level / Note									
	EMC IMMUNITY	Parameter									
		ESD		EN	31000-4-2				act		
		RF field susceptibility			⊢N61000-4-3		Level 3, 10V/m(80MHz~2.7GHz)				
							Table 9, 9~28V/m(385MHz~5.78GHz)				
							Level 3, 2KV				
		Surge susceptibility					Level 3, 1KV/Line-Line				
		Conducted sus	ceptibility	EN	31000-4-6	Le	Level 2, 3V				
		Magnetic field immunity EN61000-4-8 Level 4			evel 4, 30A/m						
		Voltage dip, int	erruption	EN	61000-4-11		>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	73.9*39*48.5mm (L*W*H)									
	PACKING	118g; 72pcs / 9.5kg / CARTON for cable connection; 100g; 110pcs / 12kg / CARTON for USB connection									
	PLUG	See page 5~6; other type available by customer requested									
ONNECTOR	CABLE										
		See page 5~6; other type available by customer requested									
NOTE	2.DC voltage: The output volta 3.Ripple & noise are measure 4.Tolerance: includes set up t 5.Line regulation is measured 6.Load regulation is measured	ind at 230VAC input, rated load, 25°C 70% RH ambient. Itage set at point measure by plug terminal & 50% load. red at 20MHz by using a 12" twisted pair terminated with a 0.1μf & 47μf capacitor. tolerance, line regulation, load regulation. d from low line to high line at rated load. ed from 10% to 100% rated load. under low input voltage. Please check the derating curve for more details. dered as an independent with but the final equipment ctill need to re-confirm that the whole system complies with the									

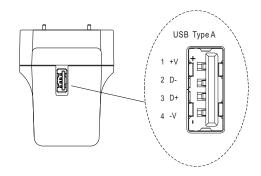
- 8. The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)

12W AC-DC Reliable Green Interchangeable Medical Adaptor $\,G\,E\,M\,1\,2\,I\,$ series









■ DC output plug

Standard plug: P1J Unit:mm

P1J		Pin Assignment
5.5	11±0.5mm	Outside ⊖—⊕ Inside



Optional DC plug:

Tuning For	Type No.	А		В	С	
		OD		ID	L	
	- C	P1I	5.5		2.1	9.5
		P1L	5.5		2.5	9.5
A.	(Straight)	P1M	5.5		2.5	11.0
B B	C	P1IR	5.5		2.1	9.5
		P1JR	5.5		2.1	11.0
	(Right-angled)	P1LR	5.5		2.5	9.5
	(rtight dilglod)	P1MR	5.5		2.5	11.0
Barrel	Style	Type No.	Α		В	С
2 411 41			OD		ID	L
	L C	P2I	5.5		2.1	9.5
		P2J	5.5	_	2.1	11.0
Δ		P2L	5.5		2.5	9.5
A B	(Straight)	P2M	5.5		2.5	11.0
L L B	<u> </u>	P2IR	5.5		2.1	9.5
		P2JR	5.5		2.1	11.0
	45	P2LR	5.5		2.5	9.5
	(Right-angled)	P2MR	5.5		2.5	11.0
	· · ·	Type No.	A B		В	С
Lock S	Style		OD		ID	L
Δ	Lock <u>ing</u> C	P2S(S761K)	5.53		2.03	12.06
		P2K(761K)	5.53		2.54	12.06
D _B		P2C(S760K)	5.53		2.03	9.52
sv	VITCHCRAFT original or equivalent	P2D(760K)	5.53		2.54	9.52
Min Din 9	Stylo	Type No	А		В	С
Min. Pin S	Style	Type No.	OD		ID	L
ı.A.	- <u>C</u> -	P3A	2.35		0.7	11.0
A B		P3B	4.0		1.7	11.0
	EIAJ equivalent	P3C	4.75		1.7	11.0
Contor Di	n Stylo	Type No	Α	В	С	D
Center Pi	Type No.	OD	ID	L	Center Pin	
A	C	P4A	5.5	3.4	11.0	1.0
		P4B	6.5	4.4	11.0	1.4
EIAJ equivalent		P4C	7.4	5.1	11.0	0.6
Min. DIN 3 Pin with	Type No.	Pin Assignment				
WIIII. DIN 3 FIII WIU	туре по.	PIN No	PIN No. Outpu		ut	
		1 +V		+Vc)	
$\left(\left(\begin{array}{c} \circ \\ \circ \end{array} \right) \right) \begin{array}{c} 1 \\ 2 \end{array}$		R6B	2		-Vo)
3	KYCON KPPX-3P equivalent		3		+Vo)

Min DINI 4 Din with Look (mole)	Type No.	Pin Assignment		
Min. DIN 4 Pin with Lock (male)	Type No.	PIN No.	Output	
ann ann		1	+Vo	
	R7B	2	-Vo	
1 7		3	-Vo	
KYCON KPPX-4P equivalent		4	+Vo	
Min DIN 4 Din with Look (famala)	Type No.	Pin Assignment		
Min. DIN 4 Pin with Lock (female)	Type No.	PIN No.	Output	
	R7BF	1	+Vo	
23 mmm		2	-Vo	
		3	-Vo	
KYCON KPJX-CM-4S equivalent		4	+Vo	
Ctripped and tipped leads	Torra Na	Pin Assignment		
Stripped and tinned leads	Type No.	PIN No.	Output	
1	by customer	1 (Ribbed)	+Vo	
L1 Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>10</u> mm)	by customer	2 (Letter)	-Vo	

■ Installation Manual

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

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