



(Cable connection)



(USB connection)



## ■ Features

- Interchangeable AC plugs (plug kit sold separately)
- Medical safety approved (2 x MOPP) according to ANSI/AAMI ES60601-1/ES60601-11, BS EN/EN60601-1/BS EN/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
- **Various DC plug quick adapter accessory available**  
(Plug kit sold separately, please refer to: [https://www.meanwell.com/upload/pdf/DC\\_plug.pdf](https://www.meanwell.com/upload/pdf/DC_plug.pdf))
- 3 years warranty

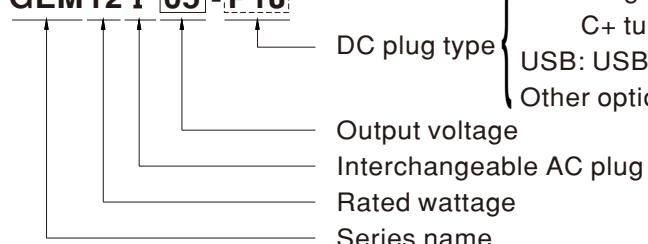
## ■ Description

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

**GEM12 I 05 -P1J**



P1J: Plug for standard model, 2.1ψ × 5.5ψ × 11mm,  
C+ tuning fork type  
USB: USB(type A) for 5V model only  
Other option available by customer requested (See page 4~5)

## ■ Applications

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

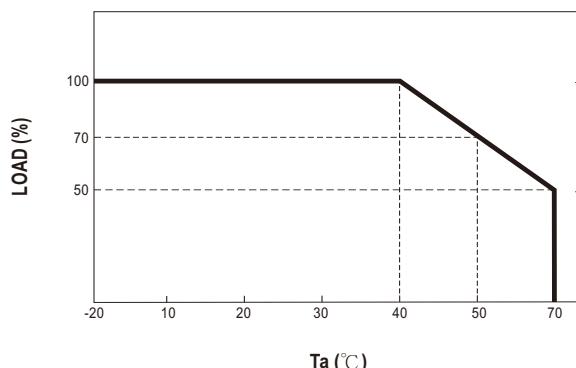
Interchangeable AC plug Specifically for GEM06/12/18/30/40/60I

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

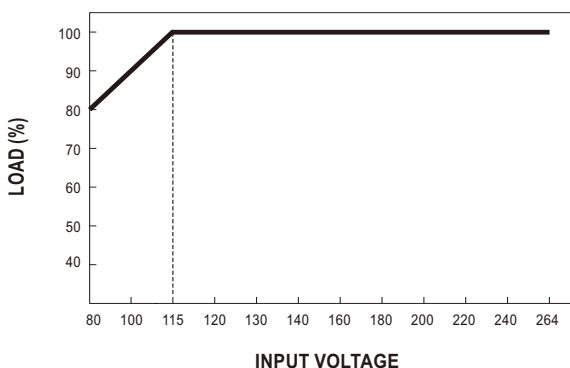
## SPECIFICATION

12W AC-DC Reliable Green Interchangeable Medical Adaptor **GEM12I** series

## ■ Derating Curve



## ■ Static Characteristics

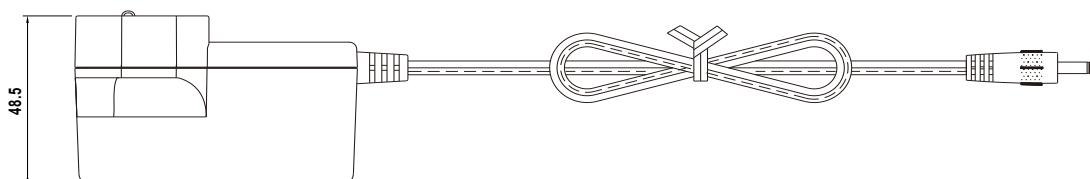
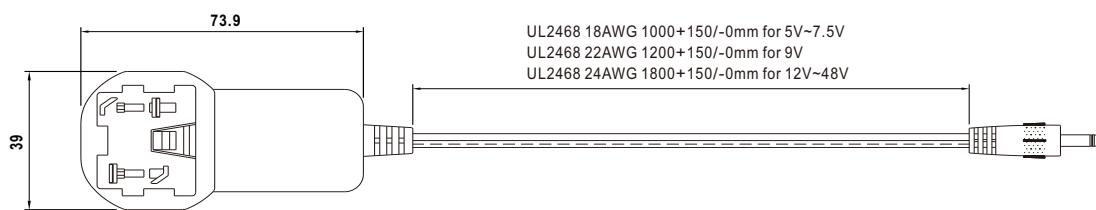


## ■ Mechanical Specification

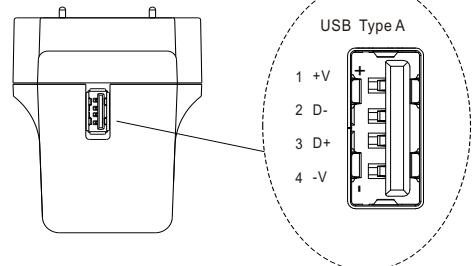
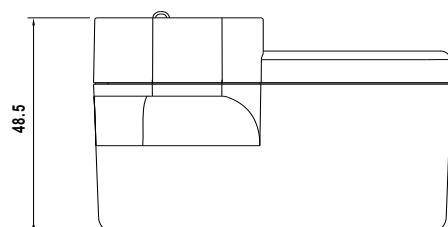
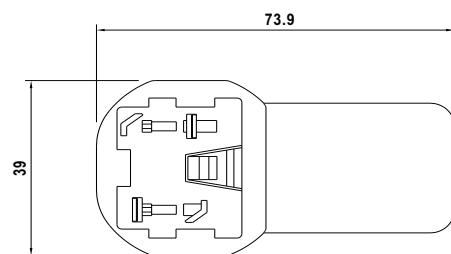
Unit:mm

TYPE	Australian type	U.K type	European type	US type

※Cable connection



※USB connection



**■ DC output plug**

- ◎ Standard plug: P1J

Unit:mm

P1J	Pin Assignment
	
5.5 2.1 11±0.5mm	Outside -> - (minus) + (plus) Inside

- ◎ DC plug changeable through:

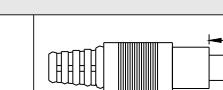
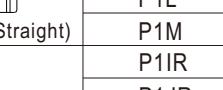
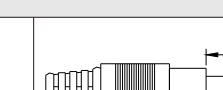
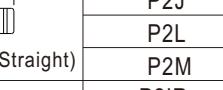
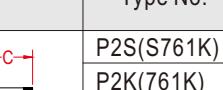
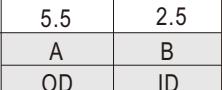
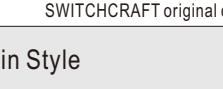
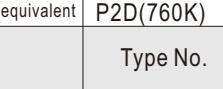
- (1) Customization of the standard part with an optional DC plug according to the table (MOQ applicable)
- (2) Quick adapter accessory (sold separately without MOQ)

Please refer to below table and online selection guide : [https://www.meanwell.com/upload/pdf/DC\\_plug.pdf](https://www.meanwell.com/upload/pdf/DC_plug.pdf)

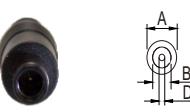
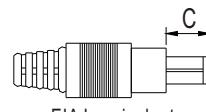
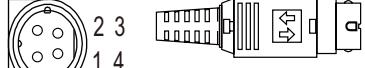
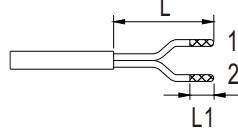
Example quick adapter accessory:



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

Tuning Fork Style	Type No.	A	B	C	Quick Adapter Accessory	
		OD	ID	L		
   	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	B	C	
   	OD	ID	L	None		
	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		
Lock Style		Type No.	A	B	C	None
   	OD	ID	L			
	P2S(S761K)	5.53	2.03	12.06		
	P2K(761K)	5.53	2.54	12.06		
	P2C(S760K)	5.53	2.03	9.52		
Min. Pin Style		Type No.	A	B	C	Available (Current rating: 5A max.)
  	OD	ID	L			
	P3A	2.35	0.7	11.0		
	P3B	4.0	1.7	11.0		
		P3C	4.75	1.7	11.0	

12W AC-DC Reliable Green Interchangeable Medical Adaptor **GEM12I** series

Center Pin Style	Type No.	A	B	C	D	Quick Adapter Accessory	
		OD	ID	L	Center Pin		
	P4A	5.5	3.4	11.0	1.0	Available (Current rating: 7.5A max.)	
	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				Available (Current rating: 7.5A max.)	
		PIN No.		Output			
		1		+Vo			
	R6B	2		-Vo		Available (Current rating: 7.5A max.)	
		3		+Vo			
Min. DIN 4 Pin with Lock (male)		Pin Assignment					
	R7B	PIN No.		Output		Available (Current rating: 7.5A max.)	
		1		+Vo			
		2		-Vo			
		3		-Vo			
		4		+Vo			
Min. DIN 4 Pin with Lock (female)	R7BF	Pin Assignment				None	
		PIN No.		Output			
		1		+Vo			
		2		-Vo			
		3		-Vo			
		4		+Vo			
Stripped and tinned leads	by customer	Pin Assignment				None	
		PIN No.		Output			
		1 (Ribbed)		+Vo			
Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>10</u> mm)		2 (Letter)		-Vo			

**■ Installation Manual**Please refer to : <http://www.meanwell.com/manual.html>