























Features

- Interchangeable AC plugs (plug kit sold sperately)
- · Medical safety approved (2 x MOPP) accroding to ANSI/AAMI ES60601-1,EN60601-1 and IEC60601-1
- · Extremely Low leakage current
- No load power consumption < 0.075W
- ullet Energy efficiency Level $V\!I$
- 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

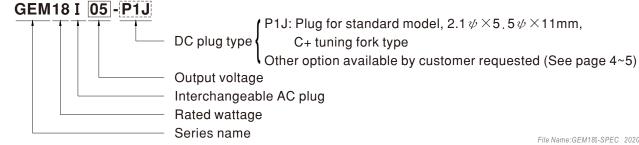
Description

GEM18I is a highly reliable, 18W 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. GEM18I 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, GEM18I 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.

C+ tuning fork type

Model Encoding



Applications

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



18W AC-DC Reliable Green Interchangeable Medical Adaptor GEM 18I series

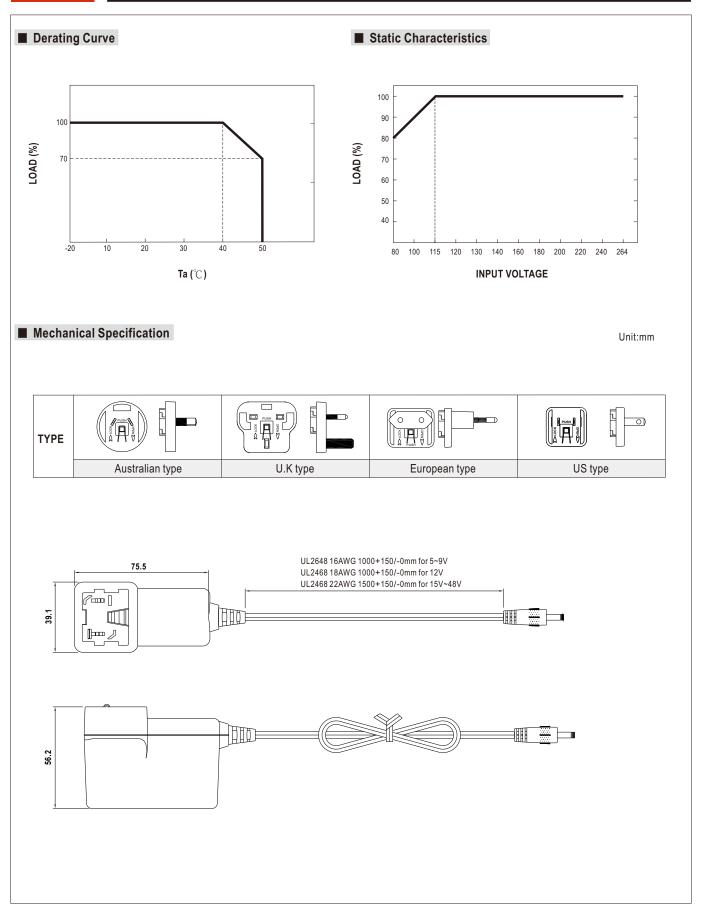
Interchangeable AC plug Specifically for GEM06/12/18/30/40/60I

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.		GEM18I05-P1J	GEM18I09-P1J	GEM18I12-P1J	GEM18I15-P1J	GEM18I18-P1J	GEM18I24-P1J	GEM18I48-P1				
	SAFETY MODEL NO.	GEM18I05	GEM18I09	GEM18I12	GEM18I15	GEM18I18	GEM18I24	GEM18I48				
	DC VOLTAGE Note.2	5V	9V	12V	15V	18V	24V	48V				
	RATED CURRENT	3A	2A	1.5A	1.2A	1A	0.75A	0.375A				
	CURRENT RANGE	0 ~ 3A	0~2A	0 ~ 1.5A	0 ~ 1.2A	0 ~ 1A	0 ~ 0.75A	0 ~ 0.375A				
	RATED POWER (max.)	15W	18W	18W	18W	18W	18W	18W				
OUTPUT	RIPPLE & NOISE (max.) Note.3	-	60mVp-p	80mVp-p	80mVp-p	80mVp-p	80mVp-p	80mVp-p				
0011 01	VOLTAGE TOLERANCE Note.4		±5.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%				
		±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%				
		±5.0%	±5.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%				
			,		,		⊥2.0%	⊥2.0%				
	, ,	500ms, 30ms, 16ms/230VAC 500ms, 30ms, 16ms/115VAC at full load 80 ~ 264VAC 113 ~ 370VDC										
		47 ~ 63Hz										
	FREQUENCY RANGE		0.40/	0.40/	0.40/	0.40/	050/	0.70/				
NPUT	EFFICIENCY (Typ.)	80%	84%	84%	84%	84%	85%	87%				
	AC CURRENT	0.45A / 115VAC										
	INRUSH CURRENT (max.)	Cold start 30A / 115VAC 60A / 230VAC										
	LEAKAGE CURRENT(max.)	Touch current < 1	00μA/264VAC									
	OVERLOAD	105 ~ 160% rated output power										
PROTECTION	OVEREDAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed										
NOILUIIUN	OVED VOLTAGE	110 ~ 140% rated										
	OVER VOLTAGE	Protection type : Clamp by zener diode, output short										
	WORKING TEMP.	-20 ~ +50°C (Refer to "Derating Curve")										
	WORKING HUMIDITY	20% ~ 90% RH non-condensing										
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH non-condensing										
	TEMP. COEFFICIENT	±0.03% /°C (0	~40°C)									
	VIBRATION	10 ~ 500Hz, 2G 1	0min./1cycle, perio	d for 60min. each a	long X, Y, Z axes							
	SAFETY STANDARDS	TUV EN60601-1,ANSI/ AAMI ES60601-1(3.1 version), CAN/CSA-C22 NO. 60601-1 3 rd edition, EAC TP TC 004 approved										
	ISOLATION LEVEL	Pimary - Seconda	arv: 2 x MOPP									
	WITHSTAND VOLTAGE	Pimary - Secondary: 2 x MOPP I/P-O/P:5656VDC										
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH										
		Parameter Standard Test Level / Note										
	EMC EMISSION	Conducted emiss	sion	EN55011 (C	CISPR11),FCC PART	18 Class B						
		Radiated emission		,	CISPR11),FCC PART							
		Harmonic currer		EN61000-		Class A						
SAFETY &		Voltage flicker		EN61000-								
EMC		EN60601-1-2, EN	J61204-3	21101000								
(Note. 8)		Parameter Standard Test Level / Note										
	EMC IMMUNITY	ESD						antaat				
			11.1114					опіасі				
		RF field suscept	IDIIIty	EN61000-		Level 3, 10V/m						
		EFT bursts	****	EN61000-		Level 3, 2KV						
		Surge susceptib		EN61000-		Level 3, 1KV/L	Line-Line					
		Conducted susc		EN61000-	, , .							
		Magnetic field in	nmunity	EN61000-	4-8	Level 4, 30A/m						
		Voltage dip, interruption EN61000-4-11 >95% dip 0.5 periods, 30% dip 25 per						periods,				
	 	•	<u> </u>			>95% interrupt	ions 250 periods					
	LIFE	3 years : 100% load 40°C, 12hours / day										
OTHERS	MTBF	400Khrs min. MIL-HDBK-217F(25°C)										
, , , , L I N O	DIMENSION	75.5*39.1*56.2mm (L*W*H)										
	PACKING	140g; 60pcs / 14kg / CARTON										
ONNECTOR	PLUG	See page 4~5; other type available by customer requested										
CONNECTOR	CABLE	See page 4~5; other type available by customer requested										
	2.DC voltage: The output voltage: 3.Ripple & noise are measure	fied at 230VAC input, rated load, 25° C 70% RH ambient. voltage set at point measure by plug terminal & 50% load. ured at 20MHz by using a 12" twisted pair terminated with a 0.1 μ f & 47 μ f capacitor. up tolerance, line regulation, load regulation.										
NOTE		fuence lave to the	التابيد عمنا مامن	If from low line to high line at rated load. If from 10% to 100% rated load. If for 100% rated								

* Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx





18W AC-DC Reliable Green Interchangeable Medical Adaptor **GEM18I** series

■ DC output plug

O Standard plug: P1J

Unit:mm

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

- O 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 Fo	Type No	А	В	С	Quick Adapter	
Tuning Fo	Type No.	OD	ID	L	Accessory	
		P1I	5.5	2.1	9.5	
	(Straight)	P1L	5.5	2.5	9.5	
I-A-		P1M	5.5	2.5	11.0	A !
A B	C	P1IR	5.5	2.1	9.5	Available
→ T+ <u>P</u>		P1JR	5.5	2.1	11.0	(Current rating: 7.5A max.)
	(Biol (accolor))	P1LR	5.5	2.5	9.5	
	(Right-angled)	P1MR	5.5	2.5	11.0	
Barrel	Style	Type No.	Α	В	С	
Darrer	турстчо.	OD	ID	L		
	, C ,	P2I	5.5	2.1	9.5	
	(Straight)	P2J	5.5	2.1	11.0	
Δ		P2L	5.5	2.5	9.5	None
A B		P2M	5.5	2.5	11.0	
В		P2IR	5.5	2.1	9.5	
		P2JR	5.5	2.1	11.0	
	(Diabt analad)	P2LR	5.5	2.5	9.5	
	(Right-angled)	P2MR	5.5	2.5	11.0	
Lock S	Lock Style			В	С	
LOOK				ID	L	
, A ,	Floating Locking C-	P2S(S761K)	5.53	2.03	12.06	None
		P2K(761K)	5.53	2.54	12.06	110110
D _B	SWITCHCRAFT original or equivalent	P2C(S760K)	5.53	2.03	9.52	
		P2D(760K)	5.53	2.54	9.52	
Min. Pin	Type No.	A	В	С		
IVIIII. I III	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	OD	ID	L		
<u>, A.</u>	B EIAJ equivalent	P3A	2.35	0.7	11.0	Available
A A		P3B	4.0	1.7	11.0	(Current rating: 5A max.)
		P3C	4.75	1.7	11.0	

GEM18I series

Center Pin Style	Type No.	A OD	B ID	C L	D Center Pin	Quick Adapter Accessory	
<u>A</u> C .	P4A	5.5	3.4	11.0	1.0		
	P4B	6.5	4.4	11.0	1.4	Available	
EIAJ equivalent	P4C	7.4	5.1	11.0	0.6	(Current rating: 7.5A max.)	
·	-			gnment	0.0		
Min. DIN 3 Pin with Lock (male)	Type No.	PIN No. Output					
	R6B	1		+Vo		Available (Current rating: 7.5A max.)	
		2		-Vo			
KYCON KPPX-3P equivalent		3		+Vo			
M: BIN (B: 1/1 1 / 1)	Tuno No	Р	in Assi	gnment			
Min. DIN 4 Pin with Lock (male)	Type No.	PIN No		Outpu	t		
	R7B	1		+Vo		Available	
23		2		-Vo		(Current rating: 7.5A max.)	
KYCON KPPX-4P equivalent		3		-Vo			
		4		+Vo			
Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment					
\ /	R7BF	PIN No		Outpu		None	
		1		+Vo -Vo			
23 [14		3		-Vo			
KYCON KPJX-CM-4S equivalent		4		+Vo			
	Type No.	Pin Assignment					
Stripped and tinned leads		PIN No		Outpu	it		
1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	by customer	1 (Ribbed)	+Vo		None	
L'I 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