



























Features

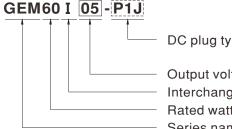
- Interchangeable AC plugs (plug kit sold sperately)
- Ultra slim, compact size
- · Medical safety approved (2 x MOPP) according to ANSI/AAMI ES60601-1/ES60601-1-11,BS EN/EN60601-1/ BS EN/EN60601-1-11
- Extremely Low leakage current
- No load power consumption < 0.15W
- Energy efficiency Level VI (except 5~9V for Level V)
- · -30~+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

Description

GEM60I is a highly reliable, 60W 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. GEM60I 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 0.15W, GEM60I is compliant with the latest USA energy regulation EISA 2007/DoE(Level ${
m VI}$) and EU ErP (5~9V for Level V). 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



P1J: Plug for standard model, $2.1 \psi \times 5.5 \psi \times 11$ mm,

C+ tuning fork type

Other option available by customer requested (See page 4~5)

Output voltage

Interchangeable AC plug

Rated wattage

Series name

Applications

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

GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx



60 WAC-DC Reliable Green Interchangeable Medical Adaptor $\,$ G E M 60 I $\,$ series

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

	Seaming to bread observe	oung 101 0=11100/12/10/0			
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.		GEM60I05-P1J	GEM60I07-P1J	GEM60I09-P1J	GEM60I12-P1J	GEM60I15-P1J	GEM60I18-P1J	GEM60I24-P1J	GEM60I48-P1		
OKBEK NO.	SAFETY MODEL NO.	GEM60I05	GEM60I07	GEM60I09	GEM60I12	GEM60I15	GEM60I18	GEM60I24	GEM60I48		
	DC VOLTAGE Note.2		7.5V	9V	12V	15V	18V	24V	48V		
		6A	6A	5.5A	4.5A	4A					
	RATED CURRENT						3.33A	2.5A	1.25A		
	CURRENT RANGE	0 ~ 6A	0 ~ 6A	0 ~ 5.5A	0 ~ 4.5A	0 ~ 4A	0 ~ 3.33A	0 ~ 2.5A	0 ~ 1.25A		
	RATED POWER (max.)	30W	45W	50W	54W	60W	60W	60W	60W		
OUTPUT	RIPPLE & NOISE (max.) Note.3		100mVp-p	100mVp-p	100mVp-p	120mVp-p	120mVp-p	120mVp-p	150mVp-p		
	VOLTAGE TOLERANCE Note.4		±5.0%	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%		
		±1.0%	±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%	±2.0%		
	SETUP, RISE, HOLD UP TIME										
	VOLTAGE RANGE Note.7										
	FREQUENCY RANGE	47 ~ 63Hz									
INPUT	EFFICIENCY (Typ.)	80% 85% 87% 88% 88%					88%	88%	90%		
	AC CURRENT	1.5A / 115VAC 0.8A / 230VAC									
	INRUSH CURRENT (max.)	Cold start 50A / 115VAC 100A / 230VAC									
	LEAKAGE CURRENT(max.)	Touch current <	100µA/264VAC								
	OVERLOAD.	105 ~ 160% rat	ed output power								
	OVERLOAD	Protection type	: Hiccup mode,	recovers autom	natically after fau	ult condition is re	emoved				
PROTECTION	AVED VALE: 2-		ed output voltage		-						
	OVER VOLTAGE	Protection type	: Clamp by zen	er diode, output	short						
	WORKING TEMP.	-30 ~ +70°C (R	efer to "Derating	Curve")							
	WORKING HUMIDITY	20% ~ 90% RH	non-condensing								
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-30 ~ +85°C, 10	~ 95% RH non-	condensing							
	TEMP. COEFFICIENT	±0.03% /°C (0~40°C)								
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes									
	SAFETY STANDARDS	TUV BS EN/EN606	01-1/BS EN/EN6060°	1-1-11,ANSI/ AAMI E	S60601-1/ES60601-1	I-11(3.1 version), CA	N/CSA-C22 NO. 6060	01-1 3 rd edition, EAC	FP TC 004 approv		
	ISOLATION LEVEL	TUV BS EN/EN60601-1/BS EN/EN60601-1-11, ANSI/AAMI ES60601-1/ES60601-1-11(3.1 version), CAN/CSA-C22 NO. 60601-1 3 rd edition, EAC TP TC 004 approximately primary - Secondary: 2 x MOPP									
	WITHSTAND VOLTAGE	I/P-O/P:5656VI									
	ISOLATION RESISTANCE	I/P-O/P:100M C	hms / 500VDC /	25°C/ 70% RH							
		I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH									
	EMC EMISSION	Conducted emission BS EN/EN55011 (CISPR11),FCC PART 18 Class B									
		Radiated emiss			5011 (CISPR11),F0		Class B				
		Harmonic curre		BS EN/EN		7017111110	ss A				
SAFETY &		Voltage flicker	2111	BS EN/EN61000-3-2							
EMC			1 BS EN/ENGO		01000-0-0						
(Note. 8)		Parameter	/EN55011, BS EN/EN60601-1-2								
					Standard		Test Level / Note				
	EMC IMMUNITY	ESD		BS EIN/EIN	BS EN/EN61000-4-2		Level 4, 15KV air; Level 4, 8KV contact				
		RF field susce	otibility	BS EN/EN	BS EN/EN61000-4-3		Level 3, 10V/m(80MHz~2.7GHz) Table 9, 9~28V/m(385MHz~6GHz)				
		EFT bursts		BS EN/EN	BS EN/EN61000-4-4		Level 3, 2KV Line-Line, 1KV ineterconnect Lines at 100KHz				
		Surge suscept	ibility	BS EN/EN	61000-4-5	Lev	Level 3, 2KV/Line-Line				
		Conducted sus	ceptibility	BS EN/EN	61000-4-6	Lev	Level 2, 3V				
		Magnetic field	immunity	BS EN/EN	61000-4-8	Lev	Level 4, 30A/m				
		Voltage dip, int	erruption	BS EN/EN	BS EN/EN61000-4-11		>95% dip 0.5 periods, 30% dip 25 periods,				
	LIFE	3 years : 100% load 40°C, 8hours / day									
-	MTBF	,									
OTHERS	DIMENSION	400Khrs min. MIL-HDBK-217F(25°C) 75.5*39.1*56.2mm (L*W*H)									
-											
	PACKING	200g ; 60pcs / 13kg / CARTON See page 4~5 ; other type available by customer requested									
CONNECTOR +	PLUG CABLE				· · · · · · · · · · · · · · · · · · ·						
NOTE	1.All parameters are specified 2.DC voltage: The output volt 3.Ripple & noise are measure 4.Tolerance: includes set up t 5.Line regulation is measured 6.Load regulation is measured 7.Derating may be needed ur 8.The power supply is considered.										
	※ Product Liability Disclaimer	: For detailed in	nformation, pleas	se refer to https:	//www.meanwell	l.com/serviceDis	· · · · · · · · · · · · · · · · · · ·	File Name:GEM60I	-SPEC 2022-0		



■ Derating Curve ■ Static Characteristics 100 90 80 LOAD (%) LOAD (%) 70 60 50 40 10 20 100 130 140 160 180 200 220 240 264 115 120 Ta (°ℂ) INPUT VOLTAGE ■ Mechanical Specification Unit:mm TYPE Australian type U.K type European type US type 75.5 UL2468 16AWG 1000+150/-0mm for 5~18V UL2468 18AWG 1500+150/-0mm for 24~48V **[**----] 56.2



■ DC output plug

O Standard plug: P1J

Unit:mm

P1J		Pin Assignment
5.5	11±0.5mm	⊕ −C"+"
2.1		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	
Tulling FO	Type No.	OD	ID	L	Accessory	
	- C →	P1I	5.5	2.1	9.5	
	(Straight)	P1L	5.5	2.5	9.5	
I-A-I		P1M	5.5	2.5	11.0	Available
A B	C -	P1IR	5.5	2.1	9.5	
-M-P		P1JR	5.5	2.1	11.0	(Current rating: 7.5A max.
	(Dight angled)	P1LR	5.5	2.5	9.5	
	(Right-angled)	P1MR	5.5	2.5	11.0	
Barrel	Style	Type No.	Α	В	С	
Barrer	Otylo	туротто.	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	
		P2LR	5.5	2.5	9.5	
	(Right-angled)	P2MR	5.5	2.5	11.0	
Lock S	Lock Style			В	С	
E O O K C		Type No.	OD	ID	L	
. A .	Floating Locking C-	P2S(S761K)	5.53	2.03	12.06	None
		P2K(761K)	5.53	2.54	12.06	
A A B		P2C(S760K)	5.53	2.03	9.52	
	SWITCHCRAFT original or equivalent	P2D(760K)	5.53	2.54	9.52	
Min. Pin S	Type No.	А	В	С		
IVIIII. I III C	·			ID	L	
,A,	C	P3A	2.35	0.7	11.0	Available
A B		P3B	4.0	1.7	11.0	(Current rating: 5A max.)
	EIAJ equivalent	P3C	4.75	1.7	11.0	



60W AC-DC Reliable Green Interchangeable Medical Adaptor

Center Pin Style	Type No.	A OD	B ID	C	D Center Pin	Quick Adapter Accessory
LA LC	P4A	5.5	3.4	11.0	1.0	
	P4B	6.5	4.4	11.0	1.4	Available (Current rating: 7.5A max.)
EIAJ equivalent	P4C	7.4	5.1	11.0	0.6	(ourrointraining. 7.07(max.)
Min. DIN 3 Pin with Lock (male)	Type No.	Pin Assignment				
Will. Bill of ill with book (male)	турстчо.	PIN No).	Output		Available (Current rating: 7.5A max.)
		1		+Vo		
	R6B	2		-Vo		
KYCON KPPX-3P equivalent		3		+Vo		
Min DIN 4 Din with Look (male)	Type No.	Pin Assignment				
Min. DIN 4 Pin with Lock (male)	Type No.	PIN No).	Outpu	t	
	R7B	1		+Vo		Available (Current rating: 7.5A max.)
2 3		2		-Vo -Vo		
KYCON KPPX-4P equivalent		3				
		4	<u> </u>	+V0		
Stripped and tinned leads	Type No.	Pin Assignment				
	1,70110.	PIN No).	Output		None
1	by customer	1 (Ribbed White)	or	+V0		
L1 Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>10</u> mm)		2 (Letter Black)		-Vo		

■ Installation Manual

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