





























- 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

Applications

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

GTIN CODE

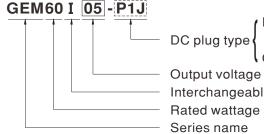
MW Search: https://www.meanwell.com/serviceGTIN.aspx

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)

Interchangeable AC plug



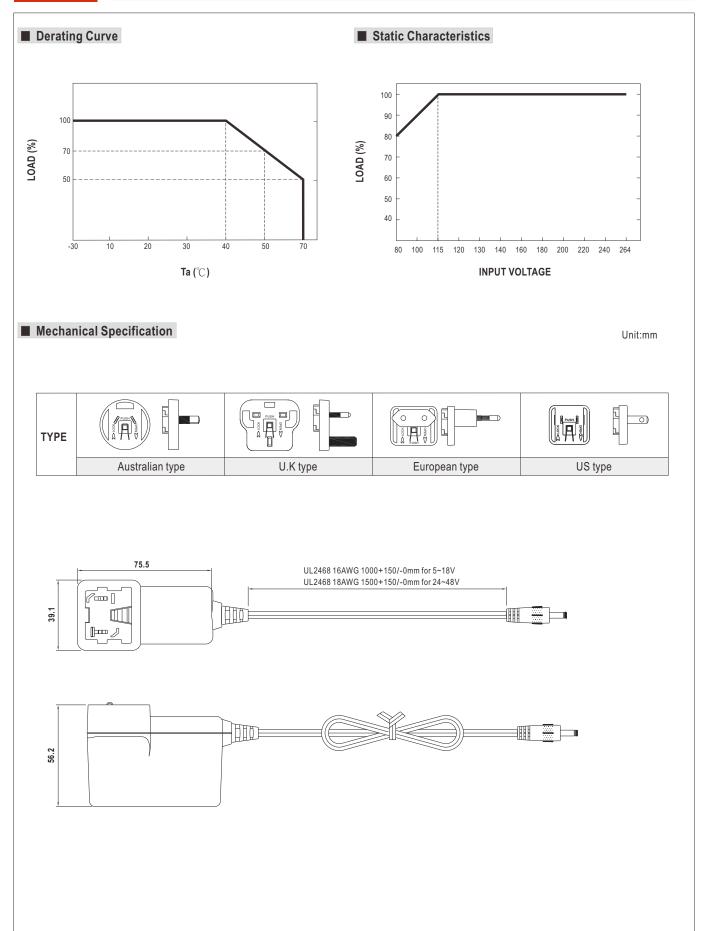
60 WAC-DC Reliable Green Interchangeable Medical Adaptor $\,$ G E M 60 I $\,$ series

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

general programmy to a second program programmy to a second programmy to a second program programmy to a second program program program program program program program program programmy to a second program pr									
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		
OUTPUT	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		
	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	80 ~ 264VAC	113 ~ 370VD	С							
	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 1	00A / 230VAC							
	LEAKAGE CURRENT(max.)	Touch current <	100µA/264VAC								
	OVERLOAD.	105 ~ 160% rat	ed output power								
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed									
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	Zaxes					
	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 appr Pimary - Secondary: 2 x MOPP									
	WITHSTAND VOLTAGE	I/P-O/P:5656VDC									
	ISOLATION RESISTANCE	I/P-O/P:100M C	hms / 500VDC /	25°C/ 70% RH							
		/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH Parameter									
	EMC EMISSION	Conducted emission BS EN/EN55011 (CISPR11),FCC PART 18 Class B									
		Radiated emiss			5011 (CISPR11),F0		ss B				
	Zino Zinioorori	Harmonic curre				7017111110	ss A				
SAFETY &			2111		BS EN/EN61000-3-2 BS EN/EN61000-3-3						
EMC		Voltage flicker BS EN/EN61000-3-3 BS EN/EN55011, BS EN/EN60601-1-2									
(Note. 8)		Parameter	I, DS LIV/LINOUG	Standard		Too	at Laval / Nata				
					21000 1 2		Test Level / Note Level 4, 15KV air ; Level 4, 8KV contact				
	EMC IMMUNUTY	ESD		BS EN/EN	01000-4-2		Level 4, 15KV all , Level 4, 6KV contact Level 3, 10V/m(80MHz~2.7GHz)				
		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	61000-4-4	Lev	Level 3, 2KV Line-Line,1KV ineterconnect Lines at 100KHz				
	EMC IMMUNITY	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									
CONNECTOR +	PLUG CABLE	See page 4~5; other type available by customer requested See page 4~5; other type available by customer requested									
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 consideration.	fied at 230VAC input, rated load, 25°C 70% RH ambient. voltage set at point measure by plug terminal & 50% load. sured at 20MHz by using a 12" twisted pair terminated with a 0.1μf & 47μf capacitor. ptolerance, line regulation, load regulation. red from low line to high line at rated load. ured from 10% to 100% rated load. I under low input voltage. Please check the derating curve for more details. sindered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the lance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." ww.meanwell.com)									
	※ Product Liability Disclaimer	: For detailed in	nformation, pleas	se refer to https:	//www.meanwell	l.com/serviceDis	· · · · · · · · · · · · · · · · · · ·	File Name:GEM60I	-SPEC 2022-0		





60W AC-DC Reliable Green Interchangeable Medical Adaptor

GEM60I series

■ 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	
Tuning 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		P1M	5.5	2.5	11.0	A 11 . I. I .
A B	C	P1IR	5.5	2.1	9.5	Available
→ T-B		P1JR	5.5	2.1	11.0	(Current rating: 7.5A max.)
	(B) (C)	P1LR	5.5	2.5	9.5	
	(Right-angled)	P1MR	5.5	2.5	11.0	
Barrel	Styla	Type No.	Α	В	С	
Dailei	Otyle	Type No.	OD	ID	L	
	, C ,	P2I	5.5	2.1	9.5	
		P2J	5.5	2.1	11.0	
Λ.		P2L	5.5	2.5	9.5	None
A B	(Straight)	P2M	5.5	2.5	11.0	110110
B B	C	P2IR	5.5	2.1	9.5	
-1 1-		P2JR	5.5	2.1	11.0	
	(B) a late a section ()	P2LR	5.5	2.5	9.5	
	(Right-angled)	P2MR	5.5	2.5	11.0	
Lock S	Lock Style			В	С	
LOOK	Type No.	OD	ID	L		
. A .	Floating Locking C-	P2S(S761K)	5.53	2.03	12.06	None
A B		P2K(761K)	5.53	2.54	12.06	TTOTIO
B	SWITCHCRAFT original or equivalent	P2C(S760K)	5.53	2.03	9.52	
		P2D(760K)	5.53	2.54	9.52	
Min. Pin S	Type No.	А	В	С		
WIIII. T III C	1 9 0 1 1 0 .	OD	ID	L		
A	B IIII	P3A	2.35	0.7	11.0	Available
₽ B		P3B	4.0	1.7	11.0	(Current rating: 5A max.)
	EIAJ equivalent	P3C	4.75	1.7	11.0	

Center Pin Style	Type No.	A OD	B ID	C L	D Center Pin	Quick Adapter Accessory
C C	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	(Current running, 7.57 thiax.)
Min. DIN 3 Pin with Lock (male)	Type No.	Pin Assignment				
Will. DIN 31 III With Lock (male)	Type No.	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).	Output		Available (Current rating: 7.5A max.)
		1		+Vo		
	R7B	2		-Vo		
KYCON KPPX-4P equivalent	1112	3		-Vo		
		4		+Vo		
Stripped and tinned leads	Type No.	Pin Assignment			4	
	1,700110.	PIN No).	Outpu	ıt	
1	by customer	1 (Ribbed White)	or	+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 Black)		-Vo		

■ Installation Manual

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