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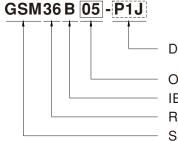
- · 2 pole AC inlet IEC320-C8, Class II power unit
- Medical safety approved (2 x MOPP) according to ANSI/AAMI ES60601-1/-1-11, BS EN/EN60601-1/-1-11
- · Extremely low leakage current
- No load power consumption<0.1W
- Energy efficiency Level VI and meet CoC version 5 (except 5~9V for Level V)
- -25~+60°C wide range working temperature
- Protections: Short circuit / Overload / Over voltage
- · LED indicator for power on
- · 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

GSM36B is a highly reliable, 36W desktop style single-output green medical adaptor series. This product is equipped with a 2-pin (no FG) standard IEC320-C8 power plug, adopting the input range from 80VAC to 264VAC. The entire series supplies different output voltages between 5VDC and 48VDC that can satisfy the demands for various kinds of miniature medical devices. The circuitry design meets the international medical standards (2 \times MOPP), having an ultra low leakage current (<50 μ A), fitting the medical devices in direct electrical contact with the patients.

With the efficiency up to 88% and the extreme low no-load power consumption below 0.1W, GSM36B is compliant with USA EISA 2007/DoE, Canada NRCan, Australia and New Zealand MEPS, EU Erp and meet Code of Conduct(CoC) Version 5; the supreme feature allows the adaptor to save the energy when it is either under the operating mode or the standby mode. The entire series utilizes the 94V-0 flame retardant plastic case, providing the double insulation that effectively prevents electrical shock. GSM36B is approved with the international medical safety certificates.

■ Model Encoding



P1J : Plug for standard model, 2.1 ψ \times 5.5 ψ \times 11mm, c+, tuning fork type Other options available by customer requested (see Page 4~5)

Output voltage

IEC320-C8 2 pin AC inlet

Rated wattage

Series name

Applications

- · Blood glucose meter
- Blood pressure meter
- Nebulizer
- Inhaler
- Portable medical device

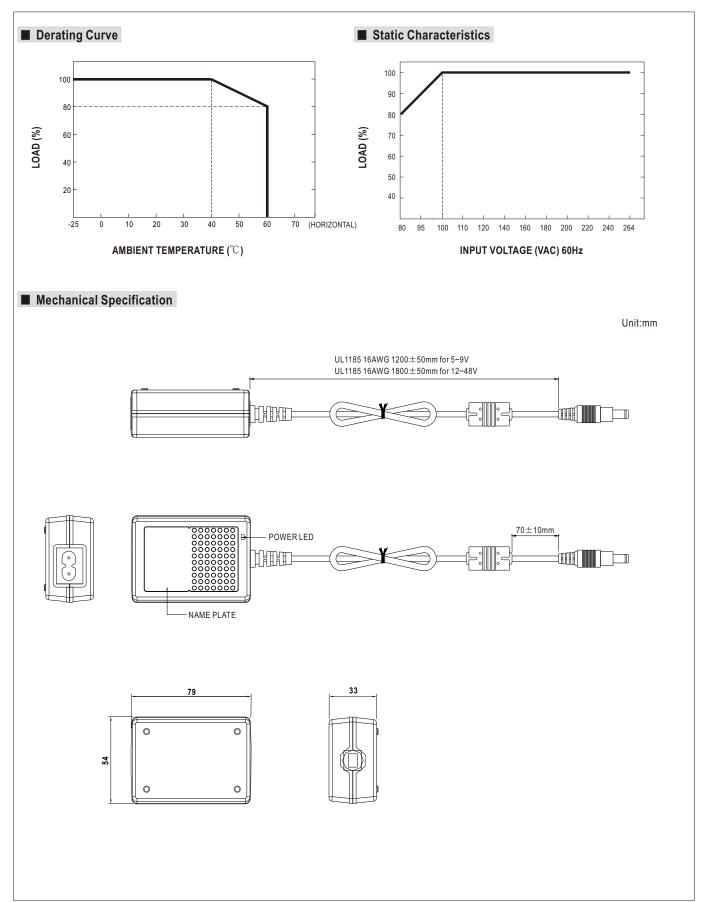
36W AC-DC Reliable Green Medical Adaptor

GSM36B series

SPECIFICATION

ORDER NO.		GSM36B05-P1J	GSM36B07-P1J	GSM36B09-P1		GSM36B15-P1J					
7	SAFETY MODEL NO.	GSM36B05	GSM36B07	GSM36B09	GSM36B12	GSM36B15	GSM36B18	GSM36B24	GSM36B48		
	DC VOLTAGE Note.2	5V	7.5V	9V	12V	15V	18V	24V	48V		
	RATED CURRENT	4.5A	4.32A	4A	3A	2.4A	2A	1.5A	0.75A		
	CURRENT RANGE	0 ~ 4.5A	0 ~ 4.32A	0 ~ 4A	0 ~ 3A	0 ~ 2.4A	0 ~ 2A	0 ~ 1.5A	0 ~ 0.75A		
	RATED POWER (max.)	22.5W	32.4W	36W	36W	36W	36W	36W	36W		
DUTPUT	RIPPLE & NOISE (max.) Note.3	80mVp-p	80mVp-p	80mVp-p	120mVp-p	120mVp-p	150mVp-p	180mVp-p	240mVp-p		
	VOLTAGE TOLERANCE Note.4	±6.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%		
	LINE REGULATION Note.5	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
	LOAD REGULATION	±6.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%		
	SETUP, RISE TIME Note.6	500ms, 30ms / 230VAC 1000ms, 30ms / 115VAC at full load									
	HOLD UP TIME (Typ.)	16ms / 230VAC 10ms / 115VAC at full load									
	(• . ,		113 ~ 370VDC	77.10 01.100							
	FREQUENCY RANGE	47 ~ 63Hz									
	EFFICIENCY (Typ.)	80%	83%	84%	86%	87%	87%	87%	88%		
NPUT	AC CURRENT (Typ.)	0.9A / 115VAC									
	INRUSH CURRENT (Typ.)	55A / 230VAC 30A / 115VAC Touch current < 50\(\alpha\)/264VAC									
	LEAKAGE CURRENT(max.)		<u> </u>								
AFETY & MC Note. 8)	OVERLOAD	105 ~ 170% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed									
PROTECTION								I			
	OVER VOLTAGE	5.25 ~ 7.5V	7.88 ~ 10.5V	9.45 ~ 13V	12.6 ~ 17.2V	15.75 ~ 20.25V	18.9 ~ 25.2V	25.2 ~ 32.4V	50.4 ~ 64.8		
			•		wer on to recove	r					
	WORKING TEMP.	-25 ~ +60°C (R	efer to "Derating	Curve")							
	WORKING HUMIDITY	20% ~ 90% RH non-condensing									
NVIRONMENT	STORAGE TEMP., HUMIDITY	$-40 \sim +85^{\circ}$ C, $10 \sim 95\%$ 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	ANSI/AAMI ES60601-1 / ES60601-1-11(3.1 version), CAN/CSA-C22 3 rd Edition, TUV BS EN/EN60601-1 / BS EN/EN60601-1-11, EAC TP TC 004 approved									
	ISOLATION LEVEL	Primary-Secondary: 2xMOPP									
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC									
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH									
		Parameter Standard Test Level / Note									
	EMC EMISSION	Conducted emission BS EN/EN55011 (CISPR11), FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B),MSIP KN32				Class B	Class B				
		Radiated emission BS EN/EN55011 (CISPR11), FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B),MSIP KN32				(N32 Class B	Class B				
		Harmonic current BS EN/EN61000-3-2				Class A	Class A				
		Voltage flicker BS EN/EN61000-3-3									
		BS EN/EN60601-1-2, BS EN/EN61204-3									
		Parameter Standard					Test Lev	Test Level / Note			
		ESD BS EN/EN61000-4-2			Level 4, 15KV air ; Level 4, 8KV conta						
		RF field susce	otibility	BS EN/EN61000-4-3		Level 3,	Level 3, 10V/m(80MHz~2.7GHz)				
								Table 9, 9~28V/m(385MHz~5.78GHz			
	EMC IMMUNITY	EFT bursts			EN61000-4-4		,	Level 3, 2KV			
		Surge susceptibility			EN61000-4-5			Level 3, 1KV/Line-Line			
		Conducted susceptibility		BS EN	BS EN/EN61000-4-6			Level 3, 10V			
		Magnetic field immunity BS		BS EN	'EN61000-4-8			Level 4, 30A/m			
		Voltage dip, int	erruption	BS EN	EN61000-4-11		100% dip 1 periods, 30% dip 25 period 100% interruptions 250 periods				
	MTBF	657.4K hrs min. MIL-HDBK-217F(25°C)									
1	DIMENSION	79*54*33mm (L*W*H)									
	PACKING	235g; 60pcs / 15.1Kg / CARTON									
	PLUG	See page 4~5; Other type available by customer requested									
ONNECTOR	CABLE	See page 4~5; Other type available by customer requested See page 4~5; Other type available by customer requested									
IOTE	 All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient. DC voltage: The output voltage set at point measure by plug terminal & 50% load. Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1μf & 47μf capacitor. Tolerance: includes set up tolerance, line regulation, load regulation. Line regulation is measured from low line to high line at rated load. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. Derating may be needed under low input voltage. Please check the derating curve for more details. 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.※ Product Liability Disclaimer		nformation, pleas	se refer to http	s://www.meanwel	I.com/serviceDis	claimer.aspx				

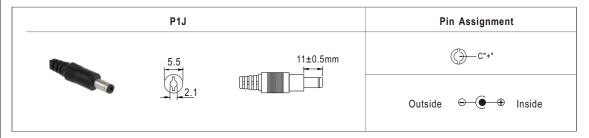






■ DC output plug

O Standard plug: P1J



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 Fork Style				Α	В	С	Quick Adapter	
			Type No.	OD	ID	L	Accessory	
Tree.	A B	C	P1I	5.5	2.1	9.5	•	
		(Straight)	P1L	5.5	2.5	9.5		
			P1M	5.5	2.5	11.0	Available	
			P1IR	5.5	2.1	9.5	(Current rating: 7.5A max.)	
			P1JR	5.5	2.1	11.0	(Current rating. 7.5A max.)	
			P1LR	5.5	2.5	9.5		
		(Right-angled)	P1MR	5.5	2.5	11.0		
Barrel Style			Type No.	Α	В	С		
				OD	ID	L		
	A B	(Straight)	P2I	5.5	2.1	9.5		
			P2J	5.5	2.1	11.0		
			P2L	5.5	2.5	9.5	None	
			P2M	5.5	2.5	11.0	110110	
			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 Style			Type No.	Type No A		С		
			турстко.	OD	ID	L		
b	A B	Floating Locking C	P2S(S761K)	5.53	2.03	12.06	None	
			P2K(761K)	5.53	2.54	12.06	None	
			P2C(S760K)	5.53	2.03	9.52		
		SWITCHCRAFT original or equivalent	P2D(760K)	5.53	2.54	9.52		



		Δ.		D		0 1 1 1 1 1	
Min. Pin Style	Type No.	A OD	B ID		C L	Quick Adapter Accessory	
, C	P3A	2.35 0.7			11.0	,	
	P3B	4.0	_	1.7 11.0		Available	
B LIALFUL BEIAJ equivalent	P3C			1.7	11.0	(Current rating: 5A max.)	
		A	В	С	D		
Center Pin Style	Type No.	OD	ID	L	Center Pin		
A C	P4A	5.5	3.4	11.0	1.0	Available	
	P4B	6.5	4.4	11.0	1.4	(Current rating: 7.5A max.)	
EIAJ equivalent	P4C	7.4	5.1	11.0	0.6		
	Type No.	Pin Assignment					
Min. DIN 3 Pin with Lock (male)		PIN No. Output					
		1		+Vo		Available	
	R6B	2		-Vo		(Current rating: 7.5A max.)	
KYCON KPPX-3P equivalent		3		+Vo			
		Pin Assignment					
Min. DIN 4 Pin with Lock (male)	Type No.		PIN No. Output				
	R7B	1	+Vo)	Available (Current rating: 7.5A max.)	
		2		-Vo -Vo +Vo			
KYCON KPPX-4P equivalent		3					
KTOON KEEN-4F Equivalent		4					
Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment					
Will. Bitt 11 in Wall Look (Tollialo)	R7BF	PIN No. Output					
		1		+Vo -Vo		None	
2 3 TUTUTU LARALLE LARALLE LARALLE LARALLE LA LARALLE L		3					
KYCON KPJX-CM-4S equivalent		4		-Vo			
·		4 +Vo Pin Assignment					
DIN 5 Pin (male)	Type No.	PIN No. Output			-		
	R1B	1	,	-Vo			
		2		-Vo +Vo -Vo		Available	
		3				(Current rating: 7.5A max.)	
660		4					
		5		+Vc)		
Stripped and tinned leads	Type No.	Pin Assignment					
On pped and inned leads	Type No.	PIN No).	Output		None	
L (red) 1 L1 (black)	by customer	1		+Vo			
Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>5</u> mm)		2		-Vo			

■ Installation Manual

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