





























■ Features

- · 2 pole AC inlet IEC320-C8, Class II power unit
- Medical safety approved (2 x MOPP) according to ANSI/AAMI ES60601-1/-1-11 and IEC/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)
- Comply with Korea K-MEPS(only GSM40B48-P1J)
- -30~+70°C wide range working temperature
- · Protections: Short circuit / Overload / Over voltage
- · LED indicator for power on
- Lifetime > 90 K hours
- Various DC plug quick adapter accessory available
 (Plug kit sold sperately,please refer to : https://www.meanwell.com/upload/pdf/DC plug.pdf

 O plug quick adapter accessory available
- 3 years warranty

Applications

- · Mobile clinical workstation
- Oral irrigator
- · Portable hemodialysis machine
- · Breath Machine
- Medical computer monitor

■ GTIN CODE

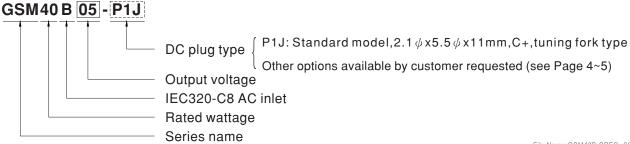
MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

GSM40B is a highly reliable, 40W 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 medical electrical devices. The circuitry design meets the international medical standards (2*MOPP), having an ultra low leakage current ($<50\,\mu$ A), fitting the medical devices in direct electrical contact with the patients.

With the efficiency up to 91% and the extremely low no-load power consumption below 0.1W, GSM40B 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. GSM40B is approved with the international medical safety certificates.

■ Model Encoding

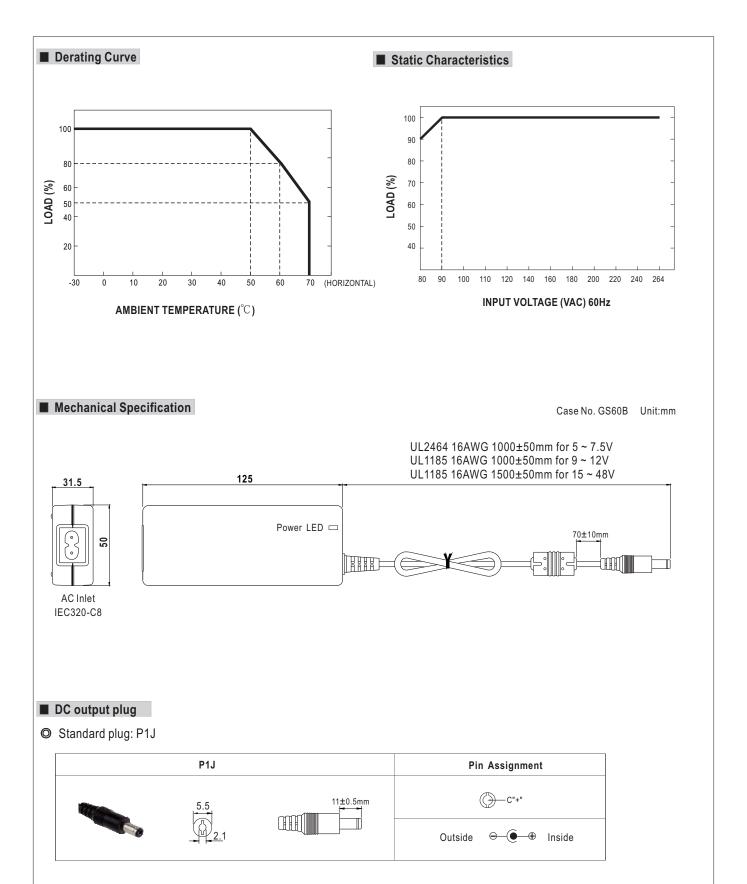




SPECIFICATION

ORDER NO.		GSM40B05-P1J	GSM40B07-P1J	GSM40B09-P1J	GSM40B12-P1J	GSM40B15-P1J	GSM40B18-P1J	GSM40B24-P1J	GSM40B48-P1		
	SAFETY MODEL NO.	GSM40B05	GSM40B07	GSM40B09	GSM40B12	GSM40B15	GSM40B18	GSM40B24	GSM40B48		
ОИТРИТ	DC VOLTAGE Note.2		7.5V	9V	12V	15V	18V	24V	48V		
	RATED CURRENT	5A	5.34A	4.45A	3.34A	2.67A	2.22A	1.67A	0.84A		
	CURRENT RANGE	0 ~ 5A	0.0471 0 ~ 5.34A	0 ~ 4.45A	0 ~ 3.34A	0 ~ 2.67A	0 ~ 2.22A	0 ~ 1.67A	0~0.84A		
		25W	40W	40W	40W	40W	40W	40W	40W		
	RATED POWER (max.)				-	-		1			
	RIPPLE & NOISE (max.) Note.3		80mVp-p	100mVp-p	100mVp-p	100mVp-p	120mVp-p	150mVp-p	150mVp-p		
	VOLTAGE TOLERANCE Note.4		±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.5%	±2.5%		
	LINE REGULATION Note.5	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
	LOAD REGULATION	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.5%	±2.5%		
	SETUP, RISE TIME Note.6	1000ms, 30ms	230VAC 1	500ms, 30ms / 1	15VAC at full loa	d					
	HOLD UP TIME (Typ.)	50ms / 230VAC 24ms / 115VAC at full load									
	VOLTAGE RANGE Note.7	80 ~ 264VAC									
	FREQUENCY RANGE	47 ~ 63Hz									
	EFFICIENCY (Typ.)	81%	85.5%	86%	88%	88.5%	89%	90%	91%		
INPUI	AC CURRENT (Typ.)	1A / 115VAC 0.5A / 230VAC									
	INRUSH CURRENT (Typ.)	Cold start 30A / 115VAC 60A / 230VAC									
	LEAKAGE CURRENT(max.)	Touch current < 50 \(\alpha \)/ 130 \(\alpha \)/ 230 \(\alpha \)C									
	ELITORIOL OUTRICERT (Max.)	105 ~ 160% rated output power									
	OVERLOAD				atically ofter for	It condition is re	mayad				
PROTECTION		5.2 ~ 7.0V			natically after fau			25.2 20.41/	E0 4 C4 014		
	OVER VOLTAGE	. , , ,	7.8 ~ 10.2V	9.4 ~ 12.2V	12.6 ~ 16.2V	15.7 ~ 20.3V	18.9 ~ 24.3V	25.2 ~ 32.4V	50.4 ~ 64.8V		
PROTECTION - ENVIRONMENT - SAFETY & EMC (Note 9)		Protection type: Shut down o/p voltage, re-power on to recover									
	WORKING TEMP.	-30 ~ +70 °C (Refer to "Derating Curve")									
	WORKING HUMIDITY		non-condensing								
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10) ~ 95% RH non-	condensing							
	TEMP. COEFFICIENT	±0.03% / °C (0~50°C)									
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes									
	OPERATING ALTITUDE Note.8	3000 meters									
	SAFETY STANDARDS	IEC60601-1/IEC60601-1-11, BS EN/EN60601-1/ BS EN/EN60601-1-11, ANSI/AAMI ES60601-1 / ES60601-1-11(3.1 version), PSE J60950-1(48V only), KC K60950-1(48V only), CAN/CSA-C22.2 No. 60601-1:14 - Edition 3, EAC TP TC 004 approved									
	ISOLATION LEVEL	Primary-Secondary: 2xMOPP									
	WITHSTAND VOLTAGE	I/P-0/P:4KVAC									
	ISOLATION RESISTANCE	I/P-O/P:100M C	hms / 500VDC /	25°C/70% RH							
	EMC EMISSION	/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH									
		Conducted emission BS EN/EN55011 (CISPR11), FCC PART 15 / CISPR22, CAN ICES-3(B)/MMB-3(B),MSIP KN32						Class B			
		Radiated emiss	Radiated emission BS EN/EN55011 (CISPR11), FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B),MSIP KN32				Class B	Class B			
		Harmonic curre	ic current BS EN/EN61000-3-2				Class A	Class A			
SAFETY &		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/E	BS EN/EN61000-4-2		Level 4.	Level 4, 15KV air ; Level 4, 8KV contact			
		-						Level 3, 10V/m(80MHz~2.7GHz)			
		RF field suscep	otibility	BS EN/E	BS EN/EN61000-4-3		1 '	Table 9, 9~28V/m(385MHz~5.78GHz)			
		EFT bursts		BS EN/F	BS EN/EN61000-4-4			Level 3, 2KV			
	EMC IMMUNITY	Surge suscepti	bility		EN61000-4-5			Level 3, 1KV/Line-Line			
		Conducted sus			BS EN/EN61000-4-6		-	Level 3, 10V			
		Magnetic field	. ,		EN61000-4-8		-	Level 4, 30A/m			
		Voltage dip, int						100% dip 1 periods, 30% dip 25 periods,			
	MIDE	100% Interruptions 250 periods							erioas		
	MTBF	3505.7K hrs min. Telcordia SR-332 (Bellcore) ; 719.4K hrs min. MIL-HDBK-217F (25°C)									
OTHERS	DIMENSION	125*50*31.5mr		_							
	PACKING	0.29Kg; 40pcs/12.6Kg/1.04CUFT									
CONNECTOR	PLUG			able by custome							
CONNECTOR	CABLE	See page 4~5;	Other type available	able by custome	r requested						
NOTE	DC voltage: The output voltag Ripple & noise are measured Tolerance: includes set up tole Line regulation is measured ff Length of set up time is meas Derating may be needed unde The ambient temperature dere The power supply is considere EMC directives. For guidance (as available on https://www.m	are specified at 230VAC input, rated load, 25°C 70% RH ambient. The coutput voltage set at point measure by plug terminal & 50% load. The remainded with a 0.1 μ F & 47 μ F capacitor. The capacitor desired at 20MHz by using a 12" twisted pair terminated with a 0.1 μ F & 47 μ F capacitor. The capacitor desired pair terminated with a 0.1 μ F & 47 μ F capacitor. The capacitor desired pair terminated with a 0.1 μ F & 47 μ F capacitor. The capacitor desired pair terminated with a 0.1 μ F & 47 μ F capacitor. The capacitor desired pair terminated with a 0.1 μ F & 47 μ F capacitor. The capacitor desired pair terminated with a 0.1 μ F & 47 μ F capacitor. The capacitor desired pair terminated with a 0.1 μ F & 47 μ F capacitor. The capacitor desired pair terminated with a 0.1 μ F & 47 μ F capacitor. The capacitor desired pair terminated with a 0.1 μ F & 47 μ F capacitor. The capacitor desired pair terminated with a 0.1 μ F & 47 μ F capacitor. The capacitor desired pair terminated with a 0.1 μ F & 47 μ F capacitor. The capacitor desired pair terminated with a 0.1 μ F & 47 μ F capacitor. The capacitor desired pair terminated with a 0.1 μ F & 47 μ F capacitor. The capacitor desired pair terminated with a 0.1 μ F & 47 μ F capacitor. The capacitor desired pair terminated with a 0.1 μ F & 47 μ F capacitor. The capacitor desired pair terminated with a 0.1 μ F & 47 μ F capacitor. The capacitor desired pair terminated with a 0.1 μ F & 47 μ F capacitor. The capacitor desired pair terminated with a 0.1 μ F & 47 μ F capacitor. The capacitor desired pair terminated with a 0.1 μ F & 47 μ F capacitor. The capacitor desired pair terminated with a 0.1 μ F & 47 μ F capacitor. The capacitor desired pair terminated with a 0.1 μ F & 47 μ F capacitor. The capacitor desired pair terminated with a 0.1 μ F & 47 μ F capacitor. The capacitor desired pair terminated with a 0.1 μ F & 47 μ F capacitor. The capacitor desired pair terminated with a 0.1 μ F & 47 μ F capacitor. The capacitor desired pair terminated with a 0.1 μ F & 47 μ F capacitor. The c									
						om/serviceDiscla	· .	File Name:GSM40B			







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)

			Δ.		D	0	0 1 1 4 1 1	
Tuning Fork Style	Type No.	A		В	С	Quick Adapter Accessory		
	P1I	OD		ID	L	Accessory		
	(Straight)		5.5		2.1	9.5 9.5	Available	
, , , , , , , , , , , , , , , , , , , ,			5.5			11.0		
A C . C .			5.5		2.5			
A C C		P1IR	5.5		2.1	9.5	(Current rating: 7.5A max.)	
		P1JR P1LR	5.5 5.5		2.1	11.0 9.5		
(Rig	(Right-angled)					11.0		
			5.5		2.5	C C		
Barrel Style	Type No.	A OD		В				
	P2I	5.5		ID	9.5			
	C-		5.5		2.1	11.0		
			5.5		2.5	9.5		
+A+	(Straight)	P2L			2.5		None	
A C C	(Otraigitt)	P2M P2IR	5.5 5.5		2.5	11.0 9.5		
B	(Right-angled)	P2IR P2JR	5.5			11.0		
		P2JR P2LR	5.5 5.5		2.1	9.5		
(Rig		P2LR P2MR	5.5		2.5	11.0		
	FZIVIR	A A		B B	C C			
Lock Style	Type No.	OD		ID ID	L			
Cleation I soliton	P2S(S761K)	5.53		2.03	12.06			
A Floating Locking	Floating Locking C SWITCHCRAFT original or equivalent		5.53		2.54	12.06	None	
			5.53		2.03	9.52		
			5.53	2.03		9.52		
	P2D(760K)	A	B B		C C			
Min. Pin Style	Type No.	OD		ID	L	-		
	<u>C</u>		2.35		0.7	11.0	Available	
THE		P3A P3B	4.0		1.7	11.0	(Current rating: 5A max.)	
→ B @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @		P3C	4.75	1.7		11.0		
EIAJ equivalen	1 30							
Center Pin Style	Type No.	A OD	В	С	D			
				ID	L	Center Pin	Available	
	C _		5.5	3.4	11.0	1.0	AVAIIADIE (Current rating: 7.5A max.)	
		P4B	6.5	4.4	11.0	1.4	(Surrontrating, 7.57(max.)	
	EIAJ equivalent		7.4	5.1	11.0	0.6		



Min DINI 2 Din with Look (male)	Torre Ne	Pin	Assignment	Quick Adapter		
Min. DIN 3 Pin with Lock (male)	Type No.	PIN No.	Output	Accessory		
	R6B	1	+Vo			
		2	-Vo	Available (Current rating: 7.5A max.		
KYCON KPPX-3P equivalent		3	+Vo	Content family. 1.3A max.,		
	Type No.	Pin	Assignment			
Min. DIN 4 Pin with Lock (male)		PIN No.	Output			
	R7B	1	+Vo	Available		
23		2	-Vo	(Current rating: 7.5A max.)		
KYCON KPPX-4P equivalent		3	-Vo			
KYCON KPPA-4P equivalent		4	+Vo			
Min DIN 4 Din with Look (fomale)	Type No.	Pin Assignment				
Min. DIN 4 Pin with Lock (female)	туре по.	PIN No.	Output			
	R7BF	1	+Vo	None		
2 3 TUUUUU 1		2	-Vo	None		
		3	-Vo			
KYCON KPJX-CM-4S equivalent		4	+Vo			
DIN 5 Pin (male)	Type No.	Pin Assignment				
Dily 31 iii (iiiaie)		PIN No.	Output			
	R1B	1	-Vo	A!		
		2	-Vo	Available (Current rating: 7.5A max.)		
$\begin{pmatrix} \begin{pmatrix} 1 & 3 \\ 0 & 2 & 5 \end{pmatrix} \end{pmatrix} \qquad $		3	+Vo	(Gurront ruting, 1.57 thiax.)		
		4	-Vo			
		5	+Vo			
Stripped and tinned leads	Type No.		Assignment			
Outpped and united leads	Type No.	PIN No.	Output			
L (red) 1 2 L1 (black)	by customer	1	+Vo	None		
Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>5</u> mm) (NOTE: The wire color is for reference only, please refer to the actual product)		2	-Vo			

■ Installation Manual

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