

























Features

- 2 pole USA plug, Class II power unit
- Medical safety approved (2 x MOPP) according to ANSI/AAMI ES60601-1/-1-11
- Extremely low leakage current
- No load power consumption<0.1W
- Energy efficiency Level VI (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

Applications

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

■ GTIN CODE

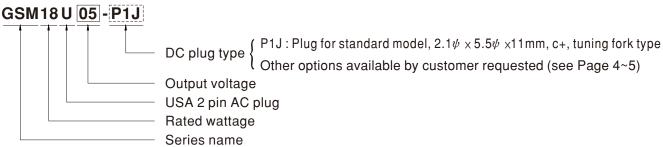
MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

GSM18U is a highly reliable, 18W wall-mounted style single-output green medical adaptor series. This product is equipped with a 2-pin (no FG) standard USA AC 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 × 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 88% and the extreme low no-load power consumption below 0.1W, GSM18U is compliant with USA EISA 2007/DoE and Canada NRCan; 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. GSM18U is approved with the international medical safety certificates.

Model Encoding

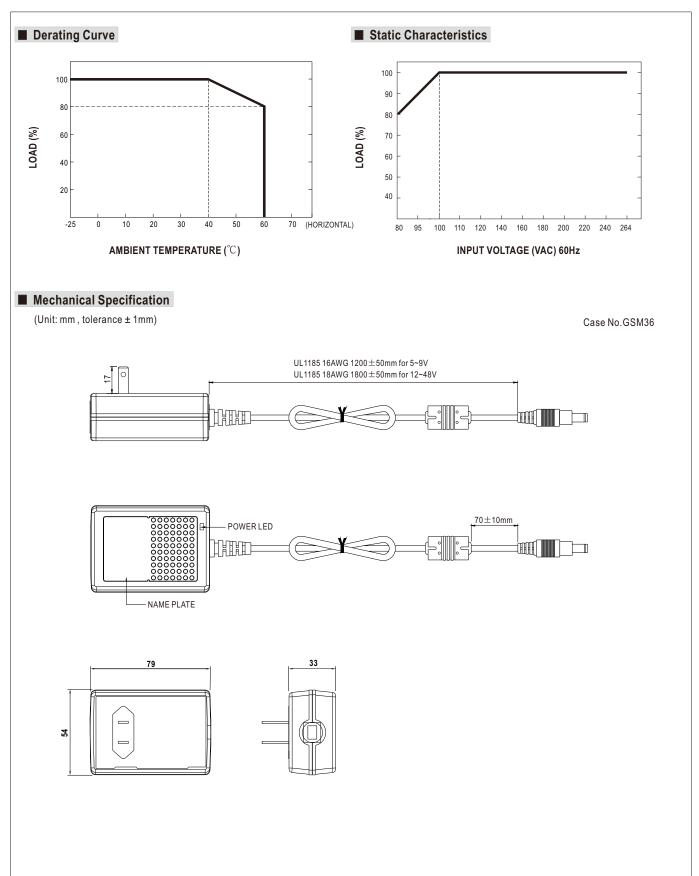




SPECIFICATION

ORDER NO.		GSM18U05-P1J	GSM18U07-P1J	GSM18U09-P1J	GSM18U12-P1J	GSM18U15-P1J	GSM18U18-P1	J GSM18U24-P1J	GSM18U48-P1J		
	SAFETY MODEL NO.	GSM18U05	GSM18U07	GSM18U09	GSM18U12	GSM18U15	GSM18U18	GSM18U24	GSM18U48		
ОИТРИТ	DC VOLTAGE Note.2	5V	7.5V	9V	12V	15V	18V	24V	48V		
	RATED CURRENT	3A	2A	2A	1.5A	1.2A	1A	0.75A	0.375A		
	CURRENT RANGE	0 ~ 3A	0 ~ 2A	0 ~ 2A	0 ~ 1.5A	0 ~ 1.2A	0 ~ 1A	0 ~ 0.75A	0 ~ 0.375A		
	RATED POWER (max.)	15W	15W	18W	18W	18W	18W	18W	18W		
	RIPPLE & NOISE (max.) Note.3	60mVp-p	80mVp-p	80mVp-p	120mVp-p	120mVp-p	150mVp-p	180mVp-p	240mVp-p		
	VOLTAGE TOLERANCE Note.4		±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	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%		
		500ms, 30ms / 230VAC 1000ms, 30ms / 115VAC at full load									
	HOLD UP TIME (Typ.)	16ms / 230VAC 16ms / 115VAC at full load									
		80 ~ 264VAC 113 ~ 370VDC									
	FREQUENCY RANGE	47 ~ 63Hz									
	EFFICIENCY (Typ.)								88%		
INPUT	AC CURRENT (Typ.)	0.5A / 115VAC	0.25A / 23	0VAC	1	1 //		1	1		
	INRUSH CURRENT (Typ.)	55A / 230VAC 30A / 115VAC									
	LEAKAGE CURRENT(max.)										
	LLANAGE CONNENT (IIIax.)	105 ~ 170% rated output power									
PROTECTION	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed									
	OVER VOLTAGE	, ,							50.4 ~ 64.8V		
ENVIRONMENT	WORKING TEMP.	Protection type: Shut down o/p voltage, re-power on to recover									
	WORKING HUMIDITY	-25 ~ +60°C (Refer to "Derating Curve")									
		20% ~ 90% RH non-condensing									
	TEMP. COEFFICIENT										
	VIBRATION	±0.03% / °C (0~40°C)									
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes IEC 60601-1:2005+A1+A2; IEC 60601-1-11:2015+A1, ANSI/AAMI ES60601-1:2005+A2; ANSI/AAMI HA60601-1-11+A1									
	SAFETY STANDARDS	CAN/CSA C22.2 No. 60601-1:2014+A2; CSA C22.2 NO. 60601-1-11:2015+A1, EAC TP TC 004 approved									
	ISOLATION LEVEL	Primary-Secondary: 2xMOPP									
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:4KVAC									
EMC (Note. 8)	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH									
(1101010)	EMC EMISSION	Parameter		Standard			Tes	est Level / Note			
		Conducted emis	sion	FCC PART 15	FCC PART 15 / CISPR22				Class B		
, ,		Radiated emission FCC PART 15 / CISPR22 Class B									
	MTBF	3889.1K hrs min. Telcordia SR-332 (Bellcore) ; 794.6K hrs min. MIL-HDBK-217F (25°C)									
OTHERS	DIMENSION										
	PACKING	79*54*33mm (L*W*H) 185g; 60pcs / 12.1Kg / CARTON									
	PLUG	See page 4~5; Other type available by customer requested									
CONNECTOR	CABLE	See page 4~5; Other type available by customer requested See page 4~5; Other type available by customer requested									
NOTE	DC voltage: The output voltage: The output voltage are measured. Tolerance: includes set up 5. Line regulation is measured. Length of set up time is more 7. Derating may be needed as the power supply is consecuted. EMC directives. For guida (as available on https://www.	All parameters are specified at 115VAC 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 0.1 μ F & 47 μ F 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 EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)						nplies with the			

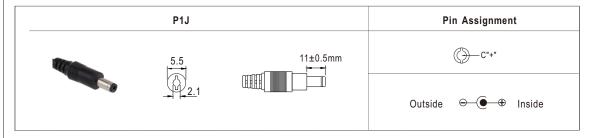






■ DC output plug

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			Type No.	Α	В	С	Quick Adapter	
			турстчо.	OD	ID	L	Accessory	
		(Straight) (Right-angled)	P1I	5.5	2.1	9.5		
	A B		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 fatting, 7.5A max.)	
			P1LR	5.5	2.5	9.5		
			P1MR	5.5	2.5	11.0		
Barrel Style			Type No.	Α	В	С		
				OD	ID	L		
	A B	(Straight) (Right-angled)	P2I	5.5	2.1	9.5		
			P2J	5.5	2.1	11.0		
			P2L	5.5	2.5	9.5	None	
A			P2M	5.5	2.5	11.0	None	
			P2IR	5.5	2.1	9.5		
-			P2JR	5.5	2.1	11.0		
			P2LR	5.5	2.5	9.5		
			P2MR	5.5	2.5	11.0		
Lock Style			Type No.	Α	В	С		
			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		
			P2C(S760K)	5.53	2.03	9.52		
		SWITCHCRAFT original or equivalent	P2D(760K)	5.53	2.54	9.52		





		А		В	С	Quick Adapter	
Min. Pin Style	Type No.	OD ID			L	Accessory	
, <u>C</u>	P3A			0.7	11.0		
	P3B	4.0	1.7		11.0	Available	
EIAJ equivalent	P3C	4.75		1.7	11.0	(Current rating: 5A max.)	
	Typo No	Α	В	С	D		
Center Pin Style	Type No.	OD	ID	ID L Center Pin			
A C	P4A	5.5	3.4	11.0	1.0	Available (Current rating: 7.5A max.)	
	P4B	6.5	4.4	11.0	1.4	(ourrentrating, 7.5/tinax.)	
EIAJ equivalent	P4C	7.4	5.1	11.0	0.6		
Min. DIN 3 Pin with Lock (male)	Type No.	Pin Assignment					
Will. DIN 31 III Will LOOK (IIIale)	туре но.	PIN No	PIN No. Output			l	
	R6B	1		+Vo		Available (Current rating: 7.5A max.)	
		2		-Vo)	(Current fatting, 7.5A max.)	
KYCON KPPX-3P equivalent		3		+Vo)		
Min DIN 4 Din with Look (male)	Type No.	Pin Assignment					
Min. DIN 4 Pin with Lock (male)		PIN No	o	Outpu			
23 四则量	R7B	1		+Vo		Available (Current rating: 7.5A max.)	
		3		-Vo			
KYCON KPPX-4P equivalent		4		-Vo +Vo			
		Pin Assignment					
Min. DIN 4 Pin with Lock (female)	Type No.	PIN No. Output					
	R7BF	1 +Vo					
23		2		-Vo		None	
23		3		-Vo			
KYCON KPJX-CM-4S equivalent		4 +Vo					
DIN 5 Pin (male)	Type No.	Pin Assignment					
()	1) po 110.	PIN No				Available (Current rating: 7.5A max.)	
	R1B	1		-Vo			
		3		-Vo +Vo -Vo +Vo			
423		4					
		5					
Ctrinned and tinned leads	Tuna Na	Pin Assignment					
Stripped and tinned leads	Type No.	PIN No	٥.	Output			
L (red) 1 2 L1 (black)	by customer	1		+Vo -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					

■ Installation Manual

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