



















Applications

· Blood glucose meter

Blood pressure meter





Features

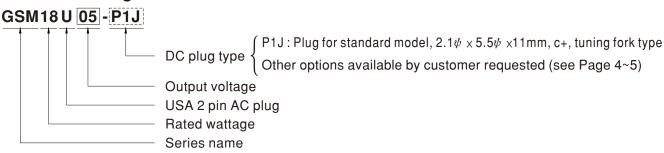
- 2 pole USA plug, Class II power unit
- Medical safety approved (2 x MOPP) according to ANSI/AAMI ES60601-1/-1-11
- Extremely low leakage current
- No load power consumption<0.1W
- Energy efficiency Level VI (except 5~9V for Level V)
- -25~+60°C wide range working temperature
- Protections: Short circuit / 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

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



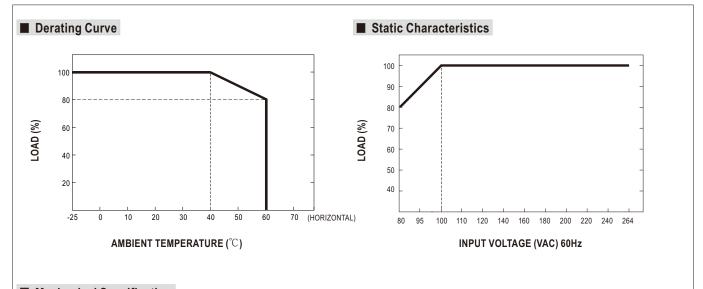
· Portable medical device



SPECIFICATION

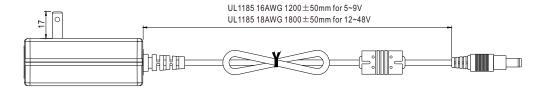
ORDER NO).	GSM18U05-P1J	GSM18U07-P1J	GSM18U09-P1J	GSM18U12-P1J	GSM18U15-P1J	GSM18U18-P1J	GSM18U24-P1J	GSM18U48-P1J		
	SAFETY MODEL NO.	GSM18U05	GSM18U07	GSM18U09	GSM18U12	GSM18U15	GSM18U18	GSM18U24	GSM18U48		
ОИТРИТ	DC VOLTAGE Note.2	5V	7.5V	9V	12V	15V	18V	24V	48V		
	RATED CURRENT	3A	2A	2A	1.5A	1.2A	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		
	RIPPLE & NOISE (max.) Note.3		80mVp-p	80mVp-p	120mVp-p	120mVp-p	150mVp-p	-	240mVp-p		
	VOLTAGE TOLERANCE Note.4		±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	1 '	±2.0%		
	LINE REGULATION Note.5	±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%		
							± 0.0 /0	_ ±2.0 /0	±2.0 /0		
	SETUP, RISE TIME Note.6 HOLD UP TIME (Typ.)	500ms, 30ms / 230VAC 1000ms, 30ms / 115VAC at full load 16ms / 230VAC 16ms / 115VAC at full load									
	, , ,										
		80 ~ 264VAC 113 ~ 370VDC 47 ~ 63Hz									
	FREQUENCY (Typ.)	80%	83%	84%	86%	87%	87%	070/	88%		
INPUT	EFFICIENCY (Typ.)				00%	01%	01%	0170	00%		
	AC CURRENT (Typ.)	0.5A / 115VAC									
	INRUSH CURRENT (Typ.)	55A / 230VAC 30A / 115VAC									
OUTPUT I I I I I I I I I I I I I	LEAKAGE CURRENT(max.)										
	OVERLOAD	105 ~ 170% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed									
PROTECTION	OVER VOLTAGE	, ,							· · · · · · · · · · · · · · · · · ·		
		5.25 ~ 7.5V 7.88 ~ 10.13V 9.45 ~ 12.6V 12.6 ~ 17.2V 15.75 ~ 20.25V 18.9 ~ 24.3V 25.2 ~ 32.4V 50.4 ~ 64.8V									
					-power on to re	ecover					
ENVIRONMENT	WORKING TEMP.	-25 ~ +60°C (Refer to "Derating Curve")									
	WORKING HUMIDITY	20% ~ 90% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-40 ~ +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	ANSI/AAMI ES60601-1, ES60601-1-11, 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 / 500VD	C / 25°C / 70%	/ 25°C / 70% RH						
		Parameter Standard Test Level / Note						Level / Note			
SAFETY & EMC (Note. 8)	EMC EMISSION	Conducted emis	ission FCC PART 15 / CISPR22 Class B					ss B	3		
		Radiated emiss	on	FCC PART 15	/ CISPR22		Clas	24V			
	MTBF	796.7K hrs min. MIL-HDBK-217F(25° C)									
OTHERS	DIMENSION	79*54*33mm (L*W*H)								
	PACKING	185g; 60pcs / 12.1Kg / CARTON									
CONNECTOR	PLUG	See page 4~5; Other type available by customer requested									
CONNECTOR	CABLE	See page 4~5; Other type available by customer requested									
NOTE	 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 4 Typf 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.meanwell.com) 										

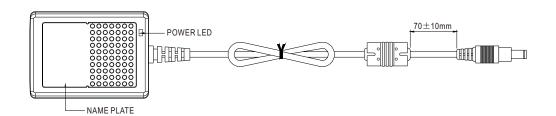


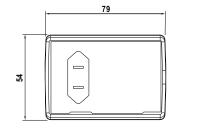


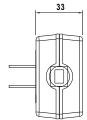
■ Mechanical Specification

Unit:mm





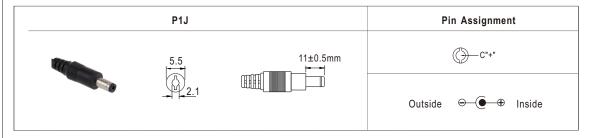






■ DC output plug

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				А	В	С	Quick Adapter	
			Type No.	OD	ID	ı	Accessory	
		L_C_1	P1I	5.5	2.1	9.5		
	A B	(Straight)	P1L	5.5	2.5	9.5		
The same of the sa			P1M	5.5	2.5	11.0	A 71 1 1	
			P1IR	5.5	2.1	9.5	Available	
			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		
		(Straight)	P2I	5.5	2.1	9.5		
	A B		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		
		(Right-angled)	P2LR	5.5	2.5	9.5		
		(Right-angled)	P2MR	5.5	2.5	11.0		
Lock Style			Type No.	ivno No		С		
			Type No.	OD	ID	L		
be.	Α.	Floating Locking C	P2S(S761K)	5.53	2.03	12.06	None	
	В		P2K(761K)	5.53	2.54	12.06	None	
00			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	
, C	P3A	2.35	35 0.7 0 1.7		11.0		
	P3B	4.0			11.0	Available	
EIAJ equivalent	P3C	4.75			11.0	(Current rating: 5A max.)	
	Type No.	Α	В	С	D		
Center Pin Style		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	+\)	Available	
	R6B	2	-Vo)	(Current rating: 7.5A max.)	
KYCON KPPX-3P equivalent		3		+Vc)		
	T N	Pin Assignment					
Min. DIN 4 Pin with Lock (male)	Type No.	PIN No	PIN No. Output				
donn le	R7B	1	+Vo		0	Available (Current rating: 7.5A max.)	
		2		-Vo			
KYCON KPPX-4P equivalent		3		-Vo			
TOOM WITH ON THE ONE		4		+V			
Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment					
	R7BF	PIN No. Output					
		1	+Vo			None	
		3		-Vo			
KYCON KPJX-CM-4S equivalent		4		+V			
		Pin Assignment					
DIN 5 Pin (male)	Type No.	PIN No. Output					
	R1B	1		-Vo			
		2		-Vo +Vo -Vo +Vo		Available (Current rating: 7.5A max.)	
		3				(Ourrentrating, 1.5A max.)	
		4					
		5					
Stripped and tinned leads	Type No.	Pin Assignment					
	by customer	PIN No. Output					
L (red)		1		+Vo			
2						None	
L1 (black)							
Length of Land L1 by request		2		-Vo			
(MW's standard length, L: <u>25</u> mm, L1: <u>5</u> mm)							

■ Installation Manual

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

Mouser Electronics

Authorized Distributor

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MEAN WELL:

<u>GSM18U05-P1J GSM18U18-P1J GSM18U15-P1J GSM18U24-P1J GSM18U07-P1J GSM18U12-P1J GSM18U09-</u> P1J GSM18U48-P1J GSM18U05-P1JW GSM18U24-P1JW