



PHIHONG 18W Medical Grade Adapter

Phihong Technology is a leading global manufacturer of power supply products ranging from adapters, battery chargers, LED drivers, PoE, to energy storage products. As a top notch manufacturer in the power supply field for over 40 years, Phihong is recognized as a trustworthy brand around the world.

Phihong's new 18W medical grade adapters have 12V output. This 18W adapter meets or exceeds DoE Level VI and CoC V tier 2 efficiency requirements. They achieve both extremely low no-load input power consumption (<100mW) and high efficiency up to 86%.

This new 18W adapter has the ultra high reliability and excellent EMC performance, it can work well with the poor power grid quality in the emerging markets and support the majority of medical applications.



Case Color : White / Black



Fixed-pin with U.S. , China, Korea, Europe, UK, Brazil, Argentina and Australia type

Features

- Universal input voltages, 90~264Vac, 47~63Hz
- Ultra high efficiency 86%
- No-load input power < 100mW
- Low leakage current < 35μA
- Operating temperature 10°C ~ +40°C
- OVP 、 OCP 、 SCP 、 OTP
- Meet DoE Level VI efficiency requirements
- Meet Type BF requirements
- High reliability

Applications

- Blood glucose meter
- Blood pressure system
- Nebulizer
- Portable medical devices

BA25 PHT170207



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Specification

	Model Name	PMA18A-120PH-R / PMA18A-120PHW-R
AC input	Nominal voltage	100 ~ 240VAC
	Maximum input voltage range	90 ~ 264VAC
	Frequency	47 ~ 63Hz
	Max. input current	0.6A~0.25A max at 100Vac~240Vac
	AC inrush current	80A max at cold start and 264VAC input
	No load input power	≤100mW @ 230VAC input
	Efficiency average	85.45%
DC output	Output voltage	12V ± 5%
	Output current	1.5A
	Output ripple & noise	≤150mVp-p
	Turn-on delay time	< 3 sec
	Rise time	< 20ms
	Over-shoot	<10% of nominal output
	Hold-up time	5mS min. @ 115Vac/60Hz; 10mS min @ 230Vac/50Hz
Protection	OVP	< 16V
	OCP	>2.2A
	SCP / OTP	Auto Recovery
Environmental	Operating temperature	10°C ~ +40°C
	Storage temperature	-20°C ~ +80°C
	Operating relative humidity	10% to 90% RH
	Storage relative humidity	10% to 95% RH
	Altitude	10,000 ft
Mean time between failures (MIL-STD-217F)		50K hr Min. at 25°C
Safety compliance	Earth leakage current	< 35μA under normal condition at 264Vac/50Hz
	Dielectric withstand voltage	Primary to secondary, 4000Vac, 1 minute
	Insulation resistance	> 100MΩ, 500Vdc between input and output terminals.
Mechanical	Dimension	43.2 x 82 x 30 mm Tolerance : ±0.5 mm
	Case flammability	UL94V-0
	DC output cable (mm)	UL1185 AWG20 Black ; 1800 ± 50
	DC plug	Right Angle OD : φ5.5 mm ; ID: φ2.1 mm ; Metal Barrel Length : 10 mm
	DC plug pin assignment	Inner (+V), Outer GND (-)
	Fixed-pin with U.S. , China, Korea, Europe, UK, Brazil, Argentina and Australia type	

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