



18W Adapter for Medical Applications

PMA18A-120PH-R/ PMA18A-120PHW-R

● 12V ● Fixed plug ● 2xMOPP ● DoE 6



The 18W adapter for medical applications is the latest offering from a world leader of charging adapter - Phihong Technology. Phihong's new 18W adapter for medical has 12V/1.5A output. This 18W adapter meets or exceeds DoE Level VI efficiency requirements. They achieve both extremely low no-load input power consumption(<100mW) and high efficiency up to 86%.

Features :

Efficiency	DoE Level VI
No Load Input Power	$\leq 100\text{mW}$ @ 230VAC input
Output ripple & noise	$\leq 150\text{mVpk-pk}$
Protection	OVP, OCP, SCP, OTP
Average Efficiency	85.45% @ 115Vac/60Hz and 230Vac/50Hz
Insulation Resistance	$>100\text{M}\Omega$ @ 500Vdc
Dielectric Withstand Voltage	Primary to secondary, 4000Vac, 1 minute
OVP	$<16\text{V}$
OCP	$>2.2\text{A}$
Turn on Delay Time/Rise Time	<3 seconds @ 1.5A
Hold-up time	5mS Min. @ at 115Vac/60Hz and 1.5A load 10mS Min. @ at 230Vac/50Hz and 1.5A
AC Plug	U.S.

Electrical Specifications :

Input Voltage	100~240Vac (90~264Vac min/max)
Frequency	50/60Hz Nom (47~63Hz min/max)
Input Current	0.6A~0.25A max at 100~240Vac
Output Voltage	12V
Output Current	1.5A
Maximum Output Power	18W
Output Ripple & Noise	150mVp-p
Earth Leakage Current	$<35\mu\text{A}$ @ 264Vac/50Hz
AC Inrush Current	80A max at cold start and 264VAC input conditions.
Over-shoot	$<10\%$ of Vout nominal
Hold-up Time	5mS min @ 115Vac/60Hz and rated load 10mS min @ 230Vac/50Hz and rated load
Turn-On Delay Time	<3 sec at rated load @ 1.5A
Rise Time	$<20\text{mS}$, 10%~90%

Environmental Specifications :

Operating Temperature	$10^{\circ}\text{C} \sim +40^{\circ}\text{C}$
Storage Temperature	$-20^{\circ}\text{C} \sim +80^{\circ}\text{C}$
Humidity, Operation	10% ~ 90% RH
Humidity, Storage	10% ~ 95% RH
Operating Altitude	10,000 ft
Non-operating Altitude	50,000 ft
MTBF (MIL-STD-217F)	50K hr min. @ 25°C

Safety and Compliance :



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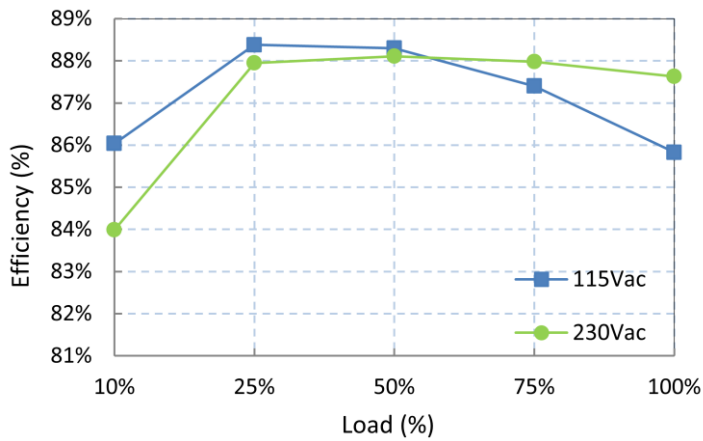
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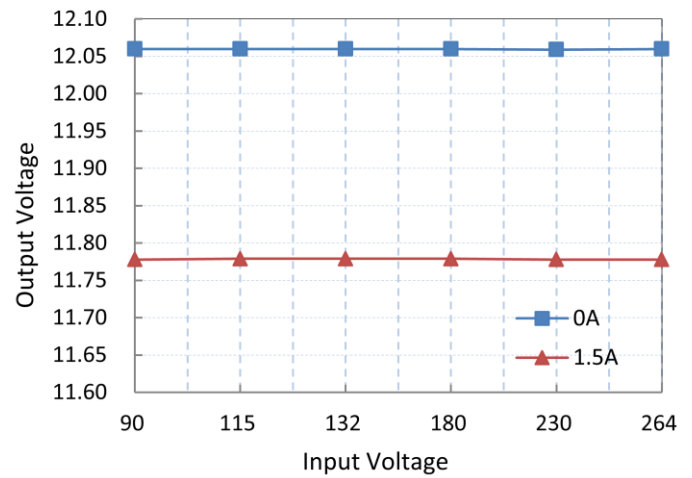
● 12V ● Fixed plug ● 2xMOPP ● DoE 6, CoC V5 Tier 2



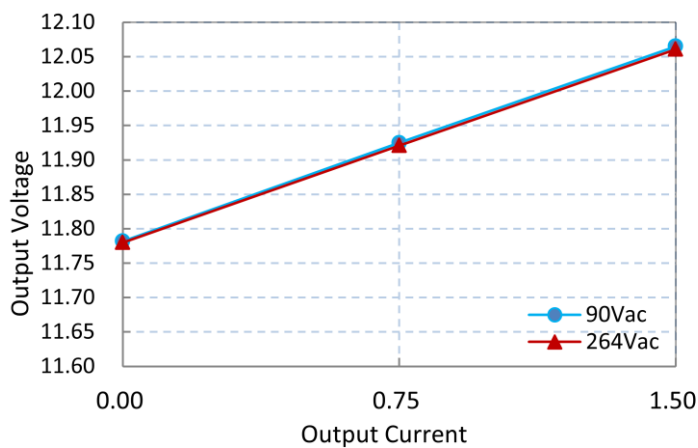
Efficiency



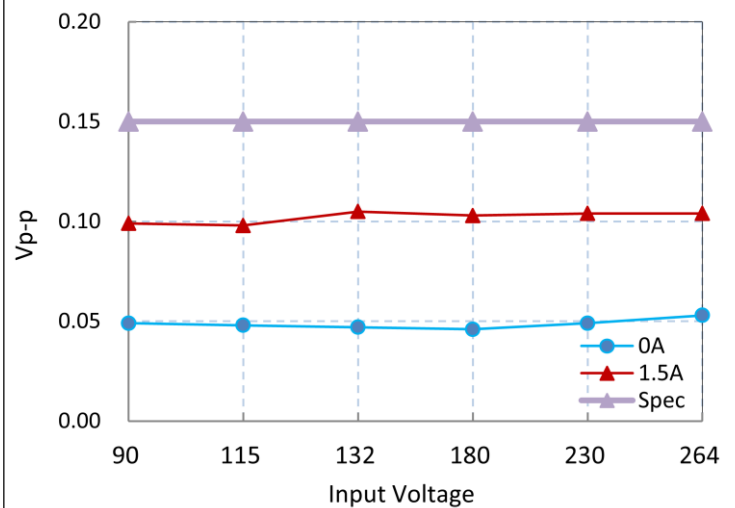
Line Regulation



Load Regulation



Noise & Ripple



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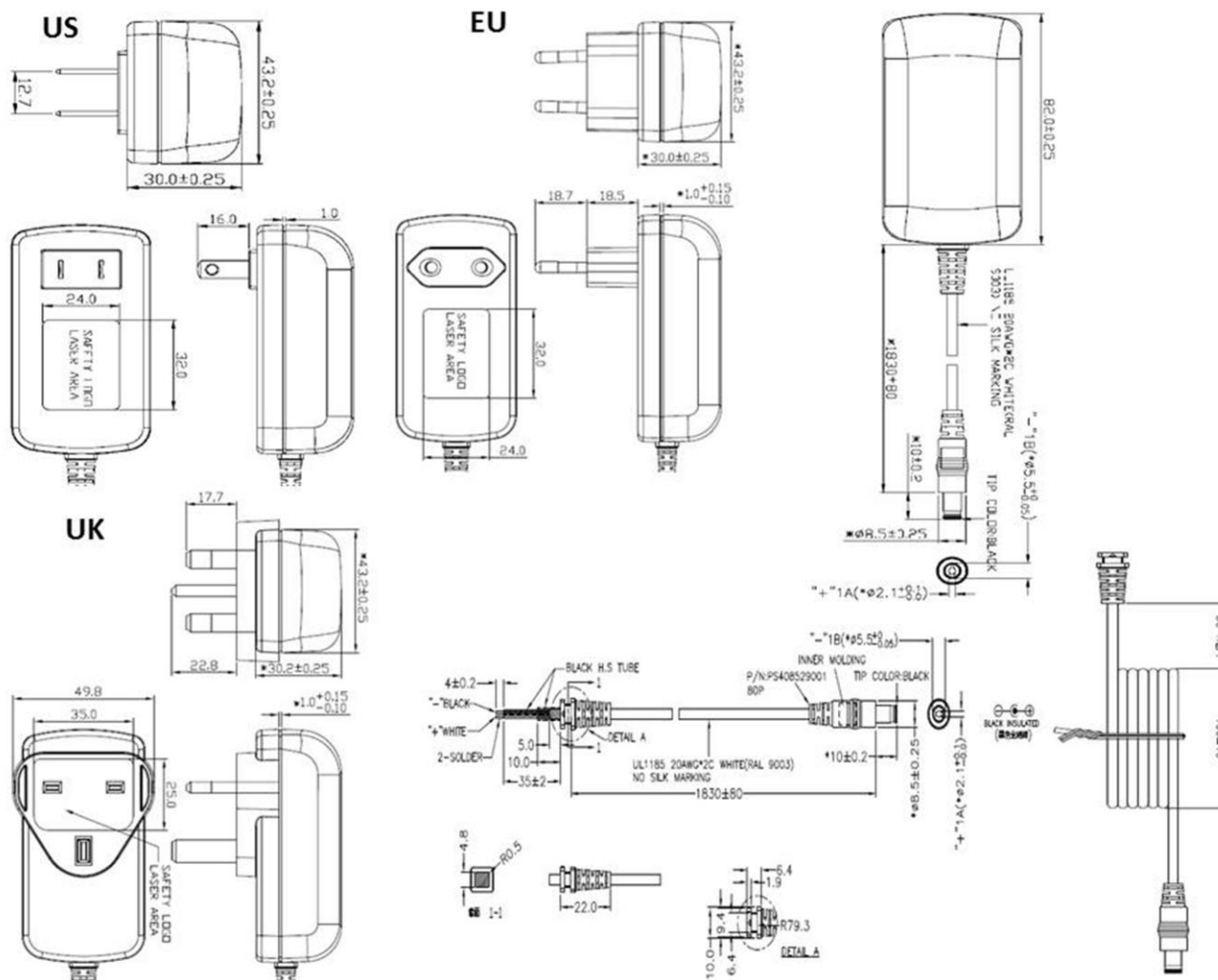
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Dimensions: mm



Model Selections

Model Number	Plug Type	Case Color	Output Current (A $\pm 5\%$)	Output Voltage (Vdc)	Max. Output Power (W)
PMA18x-120PH-R	Fixed	Black	1.5A	12V $\pm 5\%$	18
PMA18x-120PHW-R	Fixed	White	1.5A	12V $\pm 5\%$	18

x=A, E, K (A=US, E=EU, K=UK)

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