

MEDICAL & ITE/AV AC-DC DESKTOP ADAPTER

MAP68H Series

68W AC-DC ADAPTER



FEATURES

- 68W Rated Power / 100W Peak Power @5s
- Medical IEC60601-1 & ITE/AV IEC62368-1 Safety Approvals
- Compact size 105 x 50 x 29 mm
- Suitable for Class I and Class II installations
- High Efficiency up to 92%
- Suitable for Type BF Medical Equipment



INPUT SPECIFICATIONS

Nominal Input Voltage	100-240VAC
Input Voltage Range	90~264VAC (Universal)
Input Frequency	47~63Hz
Input Current	1.5A max. @ 100VAC
Inrush Current	100A typical @ 230VAC, Cold start
No Load Input Power	<0.15W @ 230VAC
Earth Leakage Current	<100μA @ 264VAC(Class I)
Touch Current	<100μA @ 264VAC
Patient Leakage Current	<100uA @ 264VAC

OUTPUT SPECIFICATIONS

Total Regulation	±5%
Line Regulation	±0.5%
Load Regulation	±4.5%
Minimum Load	None
Transient Response	±5%, 5%-50% or 50%-100%
Ripple / Noise	1% pk-pk Max
Turn-On Delay	2 seconds Max @ 100VAC
Hold-Up Time	>10ms @115VAC Full Load
Over-Voltage	110-140%, Hiccup, Auto-Recovery
Over-Load	Hiccup, Auto-Recovery
Short Circuit	Hiccup, Auto-Recovery
Over-Temperature	Auto Recovery with hysteric

GENERAL SPECIFICATIONS

Efficiency	90%-92% typical@115/230 VAC, Full Load
	4000 VAC – Input to Output; 2xMOPP
Isolation	1500 VAC – Input to Ground; 1xMOPP
	1500 VAC – Output to Ground; 1xMOPP
MTBF	500K Hours, Telecordia SR-332 @ 25 °C
Weight	300g ref

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	0 ~ +40°C
Derating	2.0%/°C, > 40°C, up to 60°C max
Storage Temperature	-40 ~ +85°C
Operating Humidity	5~95% (non-condensing)
Operating Altitude	5000m
Storage Altitude	5000m
Shock	294 m/s²(30G), 10ms, 6 times on each of 3axes
Vibration	10-500 Hz,19.6 m/s²(2G), 20 mins on 3 axes

EMC & SAFETY

EMC	IEC60601-1-2 Edition 4.1
Emissions	EN55011, EN55032, FCC Part J15, Class B, Conducted & Radiated
Harmonic Current	EN61000-3-2 Class A
Voltage Flicker	EN61000-3-3
ESD	EN61000-4-2, 8kV contact, 15kV Air Discharge
EFT/Burst	EN61000-4-4, Level 3, Criterion A
Surge	EN61000-4-5 Installation Class 3, Criterion A
Conducted Immunity	EN61000-4-6, 10Vrms ,Criterion A
Radiated Immunity	EN61000-4-3, 10V/m, Criterion A
Magnetic Field	EN61000-4-8, 30A/m, Criterion A
Dips & Interruptions	EN61000-4-11
Safety Approvals	IEC60601-1
	IEC62368-1
	CE
	UKCA

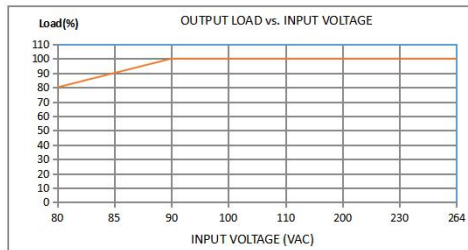
MODELS	OUTPUT VOLTAGE	OUTPUT CURRENT @ RATED	TOTAL REGULATION	PEAK CURRENT @5S
MAP68H-12	12V	5.41A	±5%	7.0A
MAP68H-15	15V	4.53A	±5%	6.0A
MAP68H-19	19V	3.58A	±5%	5.2A
MAP68H-24	24V	2.83A	±5%	4.2A

- 1). Derate output power by 2% per VAC for input voltage<90vac
- 2). Ripple & Noise test : use a 0.1uF ceramic capacitor in parallel with a 10 uF electrolytic capacitor at the output connector, the bandwidth is set to 20MHz.
- 3). The peak current are performed at 100Vac to 264Vac, derated by 2% per VAC for input voltage<100vac, the duty cycle of peak current is 10%Max.

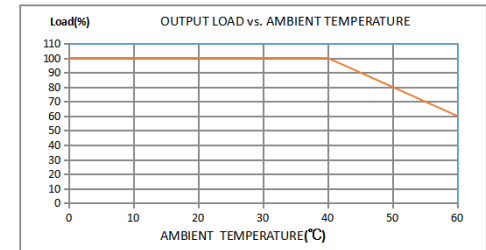
MODEL NUMBER NAMING

MAP68H WALL-PLUG ADAPTER 68 Watts	-	xx/xxx OUTPUT VOLTAGE 12: 12V 16S: 16.5V 24: 24V	y AC INLET Class I, A: C14, D: C6 Class II, B: C8, C: C18	zzz OUTPUT CONNECTOR B: Barrel, 5.5x2.5x10.5, Straight B2: Barrel, 5.5x2.1x10.5, Straight B2R: Barrel, 5.5x2.1, 90deg Right angle	-	abcd CUSTOMER CODE OR OTHERS
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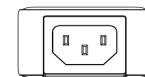
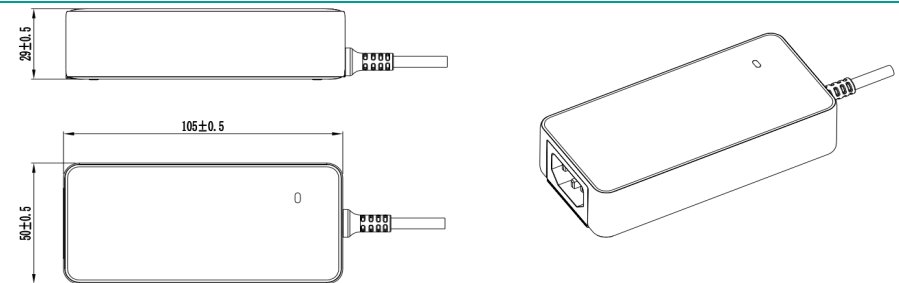
OUTPUT POWER VS INPUT VOLTAGE



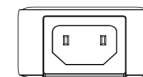
OUTPUT POWER VS AMBIENT TEMPERATURE



OUTLINE DRAWING



Inlet C14
Class I Safety Approvals



Inlet C18
Class II Safety Approvals



Inlet C6
Class I Safety Approvals



Inlet C8
Class II Safety Approvals