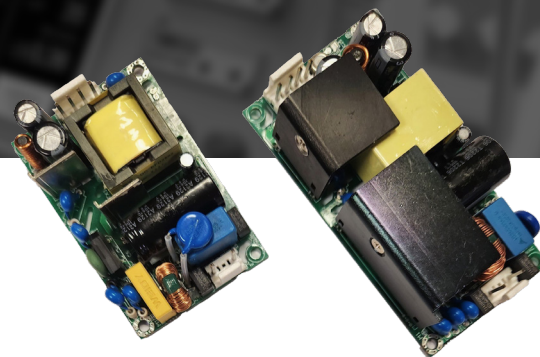


MD Medical Power Supplies

MARSH MEDICAL



Our **MD Open Frame Power Supplies** expertly convert incoming AC to a stable DC voltage bus. With a point-of-use converter, these power supplies further refine the voltage to match the specific requirements of your load, ensuring optimal performance. High-quality, customizable, and equipped with a variety of outputs and mounting options, they are designed to seamlessly integrate into any application.

FEATURES

- No Load Power < 0.5W
- -40°C to +70°C Operating Temperature
- Certified to IEC/EN 60601-1, IEC/EN/UL 62368-1, and IEC/EN 61558
- Class II option available
- Medical (BF) safety approvals
- Approved to household, ITAV, and medical standards

COMPETITIVE ADVANTAGES

- Efficiencies up to 87%



FOCUS MARKETS/APPLICATIONS

- Electro-Medical Devices
- Therapeutic Devices
- Neurodiagnostic Devices
- Pulmonary Function Testing Equipment
- Ventilators
- Lab Diagnostic Equipment

TECHNICAL DATA

	Specifications	5V/50W	12V/60W	15V/60W	24V/60W	48V/60W
OUTPUT	Rated Current (Convection)	10A	5A	4A	2.5A	1.25A
	Rated Current (Forced Air)	N/A				
	Ripple & Noise (Max.)	< 1.5% of Vout	< 1% of Vout	< 1% of Vout	< 1% of Vout	< 1% of Vout
	Voltage Adj. Range	5V to 6V	12V to 14V	15V to 17.5V	24V to 48V	48V to 56V
	Voltage Tolerance	± 1%				
	Line Regulation	± 0.5%				
	Load Regulation	± 1%				
	Turn On Time	< 1 sec. @ 230VAC and < 3 sec. @ 115VAC, Full Load				< 3 sec. @ 230VAC < 6 sec. @ 115VAC, Full Load
	Hold Up Time	≥60 ms @ 230VAC and ≥10 ms @ 115VAC, Full Load				
	Rise Time	< 100 ms				
INPUT	Voltage Range*	90-264VAC (127-370VDC)		Note: 90-305VAC operation available on demand.		
	Frequency Range	47-63Hz				
	Efficiency @ 230VAC	Up to 80%	Up to 85%	Up to 85%	Up to 87%	Up to 87%
	AC Current	1.2A @ 115VAC; 0.8A @ 230VAC				
	Power Factor	No active PFC is available.				
	Inrush Current	< 60A; Measured at 264VAC, 25°C Ambient, Cold Start				
	Leakage Current	< 300uA; 264VAC input				
	Touch Current	< 100uA; 264VAC input				
PROTECTION	No Load Power Consumption	< 0.5W; 115VAC input				
	Overload	> 110% of rated output current; Hiccup Mode; Auto-Recovery Type				
	Overvoltage	6.8VDC ± 0.5VDC	17VDC ± 1VDC	20VDC ± 1VDC	31.5VDC ± 1VDC	61VDC ± 2VDC
	Output Short Circuit	Latched Type; Input AC power to be recycled to recover power supply Hiccup Mode when output is shorted; Auto-Recovery Type				
ENVIRONMENT	Over Temperature	Power supply shuts down when the temperature of PCB below main transformer reaches typically 120°C; Turns on only after the temperature falls below 90°C typically and AC power is recycled thereafter.				
	Operating Temperature	-40°C to 70°C; De-rate linearly above 50°C from 100% load at 50°C to 50% load at 70°C. Note: Only start up guaranteed at -40°C with specification deterioration.				
	Storage Temperature	-40°C to 85°C				
	Cooling	Natural convection cooled				
	Humidity	5 to 95% RH. Non-Condensing				
	Altitude	2000m				
Vibration	Component: 10-500Hz, 2G 10 min./1 cycle, Period for 60 min. each along X, Y, Z axes					

Note: * Although power supply will work for the specified DC input voltage range, UL approval is only for the specified AC input voltage range.

Visit our website or contact your account manager for more information on custom solutions from Marsh Medical!

marsh-medical.com

Marsh Medical, a division of the Marsh Bellofram Group of Companies

8019 Ohio River Blvd. Newell, WV 26050 USA
304-387-1200 | customerRFQ@marshbellofram.com