

MCC600 Series

Convection Cooled Open Frame Power Supplies Medical

The MCC600 Series of open-frame medical power supplies, with its wide universal 85 - 264 VAC input range, is available at 600 W of output power and a variety of single output voltages.

The MCC series is designed and approved to the latest Medical standards (EN/IEC 60601-1), providing 2 x MOPP isolation for Class I & Class II applications.

These medical power supplies are ideal for monitoring, home health equipment as well as surgical devices.



Key Features & Benefits

- 5 x 8.5 x 1.61 Inch Form Factor
- Convection Cooling Rated
- Approved to EN60601
- Dual Fusing
- Current Sharing
- Open Frame
- Peak Power Capability
- 5 V Stand by Provision

Applications

- Diagnostic
- Drug Pump
- Dialysis
- Hospital Beds
- Home Health Care
- Monitoring
- Imaging
- Therapy Devices



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1. MODEL SELECTION

MODEL NUMBER*	VOLTAGE	TYPE	MAX. LOAD (CONVECTION)	MIN. LOAD	RIPPLE & NOISE ¹
MCC600-1T12	12 V	U-Channel	25 A	0.0 A	2%
MCC600-1T15	15 V	U-Channel	25 A	0.0 A	2%
MCC600-1T24	24 V	U-Channel	25 A	0.0 A	2%
MCC600-1T30	30 V	U-Channel	20 A	0.0 A	2%
MCC600-1T48	48 V	U-Channel	12.5 A	0.0 A	2%
MCC600-1T58	58 V	U-Channel	10.34 A	0.0 A	2%

* To order product without the redundancy diode option please add the suffix-Sxxx to your required part number. Please contact the factory for availability.

2. INPUT SPECIFICATIONS

PARAMETER	DESCRIPTION / CONDITION	SPECIFICATION
Input Voltage	Universal	85 – 264 VAC / 120 – 390 VDC
Input Frequency		47 – 63 Hz
Input Current	120 VAC: 240 VAC:	6.5 A max. 3.2 A max.
Input Protection	In Live & Neutral both	F16 A / 250 V
No Load Power	Over entire input range with main output kept OFF using Remote ON/OFF Over entire input range with main output kept ON using Remote ON/OFF	3 W typ. 6 W typ.
Inrush Current	240 VAC:	25 A max.
Leakage Current	@ 240 VAC / 50 Hz Touch Current:	400 μ A < 100 μ A
Power Factor	120 VAC: 240 VAC:	0.98 0.95
Switching Frequency	PFC converter: Variable Resonant converter: Variable	85 kHz typical 100 kHz typical

3. OUTPUT SPECIFICATIONS

PARAMETER	DESCRIPTION / CONDITION	SPECIFICATION
Output Power	Convection	600 W
Efficiency	120 VAC: 240 VAC:	88% Typical 93%
Hold-up Time	120 VAC / 240 VAC:	8 ms
Line Regulation		+/-0.5%
Load Regulation		+/-1.0%
Transient Response	50% to 100% load change, 50 Hz, 50% duty cycle, 0.1 A/ μ s	< 10%, recovery time < 5 ms
Voltage Adjustment		+/-3%
Set Point Tolerance		+/-1%
Rise Time		<100 ms
Over Current Protection	Hic-Up Type, autorecovery	110%
Over Voltage Protection	Latch Type, AC Power to be recycled for recovery	114%
Short Circuit Protection	Latch Type, AC Power to be recycled for recovery	
Over Temperature Protection	Autorecovery	130 - 140°C primary heat sink
Current Share	Up to 3 supplies connected in parallel (optional)	