

Double Full-Size 600W Power Supply

MANAGED POWER FOR MicroTCA



The SCHROFF AC600D is a high-density and high-efficiency power module (PM) for MicroTCA applications. Supplying 600W it is the market's most efficient PM in its double-width full-size form-factor to run today's complex communication systems made of latest processor generations and an increased number of Advanced Mezzanine Cards (AMC). The power module AC600D provides electrical support for the expected workload of 12 AMCs, 2 Cooling Units (CUs) and 2 MicroTCA Carrier Hubs (MCH).

EMMC

The PM-AC600D includes a robust Enhanced Module Management Controller (EMMC) that interfaces the power control functionality via the Intelligent Platform Management Bus (IPMB) to the MCH.

REDUNDANCY AND LOAD SHARING

The PM-AC600D supports redundancy as well as load sharing modes in accordance to MicroTCA specifications. In case of an input power supply failure the power for the onboard EMMC can be provided by SMP power from other PMs, so that the MCH is able to analyze root cause failure.

BENEFITS AT A GLANCE

- 110-265VAC input (autorange) input with self-locking power cord
- 600W output power
- Support for N+1 and 2+2 redundancy and load sharing
- Power management for 16 power channels
- Support of 12 AMC's, 2CU's and 2 MCH's
- High-efficiency AC/DC power conversion
- Optical load indicator
- Backup power for other PMs (SMP)

Technical Data

INTELLIGENT SECURITY SYSTEM

- Output over-voltage and over-temperature protection
- Input under-voltage shutdown
- Output short circuit protection IEC/EN/UL60950-1 safety standard compliant
- Programmable current limiting threshold per output channel

FRONT PANEL ELEMENTS

- IEC AC power connector for self-locking cord
- On/off switch
- LED load indicator
- Hot-swap and fault LED
- Hot-swap handle

STANDARD COMPLIANCE

- PICMG MicroTCA.0 and AMC.0
- IPMI v1.5 and v2.0
- HPM.0
- IEC/EN/UL60950-1 class A
- MicroTCA.1 (FP0S, FP1D)

3.3V OUTPUT POWER SUBSYSTEM

- Max. channel current: 180mA
- Fast trip current limit: 300mA
- Accuracy 3.3V: 5%

12V OUTPUT POWER SUBSYSTEM

- Max. channel current: 6.6A (80W)
- Fast trip current limit: 8.3A
- Max. inrush current: 19.4A
- Accuracy 12V: 10%

ENVIRONMENTAL CONDITIONS

- Standard operating temperature: -5°C to 55°C
- Extended operating temperature: -40°C to 85°C (on request only!)
- Storing temperature: -40°C to 85°C
- Min. input voltage: 110VAC
- Max. input voltage: 265VAC
- Isolation voltage: 3.7kV
- RoHS compliant

SIZE

- Double Full-size (6HP)

Order information

MTCA.4 MANAGED POWER SUPPLY 600W

Item number

11098-547

FOR MORE PRODUCTS AND FURTHER INFORMATION PLEASE VISIT: nVent.com/SCHROFF

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