

ACC600 Series

Convection Cooled Open Frame Power Supplies

The ACC600 Series of open frame power supplies feature a wide universal AC input range of 85 – 264 VAC, offering up to 600 W of output power with convection cooling (U-Channel), in a compact footprint, with a variety of single output voltages.

The high efficiency and high power density of the ACC series ensures minimal power loss in end-use equipment, thereby facilitating higher reliability, easier thermal management and meets regulatory approvals for environmentally-friendly end products.

These power supplies are ideal for medical, telecom, datacom, industrial equipment and other applications.



Key Features & Benefits

- 5 x 8.5 x 1.61 Inch Form Factor
- Convection Cooling Rated
- Universal Input
- Current Sharing
- Open Frame
- Peak Power Capability
- 5 V Stand by Provision

Applications

- Instrumentation
- Lighting
- Industrial Applications
- Applied Computing
- Renewable Energy
- Test and Measurement
- Robotics
- Wireless Communication



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1. MODEL SELECTION

MODEL NUMBER*	VOLTAGE	TYPE	MAX. LOAD (CONVECTION)	MIN. LOAD	RIPPLE & NOISE
ACC600-1T12	12 V	U-Channel	25 A	0.0 A	2%
ACC600-1T15	15 V	U-Channel	25 A	0.0 A	2%
ACC600-1T24	24 V	U-Channel	25 A	0.0 A	2%
ACC600-1T30	30 V	U-Channel	20 A	0.0 A	2%
ACC600-1T48	48 V	U-Channel	12.5 A	0.0 A	2%
ACC600-1T58	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

Specifications are for nominal input voltage, 25°C unless otherwise stated.

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.
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/μs	< 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)	