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CompactPCI Pluggable Power Supplies...

6U 350 WATT-TR.

RiPower 350-TR

The 350 Watt-TR is a high-performance power supply for use in 6U CompactPCI computer, test and measurement, industrial automation and telecom systems. The 350-TR meets all of the requirements of the PICMG CompactPCI specification, plus N+1 redundancy, current sharing, and hot swappable capabilities. High-density cooling fins are positioned directly in the airstream. All input and output connections are through the backplane. LED status indicators located on the front panel. 6U x 8 HP x 160mm form factor.

Part No.	Input voltage maximum current	Output voltage
3686677	90-264 VAC, 6A max	5V/40A, 3.3V/2.5A, +12V/9A, - 12V/2A
3686685	90-264 VAC, 6A max	3.3V/60A, 5V/20A, +12V/9A, - 12V/2A
3686686	40-60 VDC, 14A max	5V/40A, 3.3V/25A, +12V/9A, - 12V/2A
3686687	40-60 VDC, 14A max	3.3V/60A, 5V/20A, +12V/9A, -12V/2A

For power supply backplanes, see pages 50-51.
Guide rail **Part No. 3684669** 2 pieces are required.

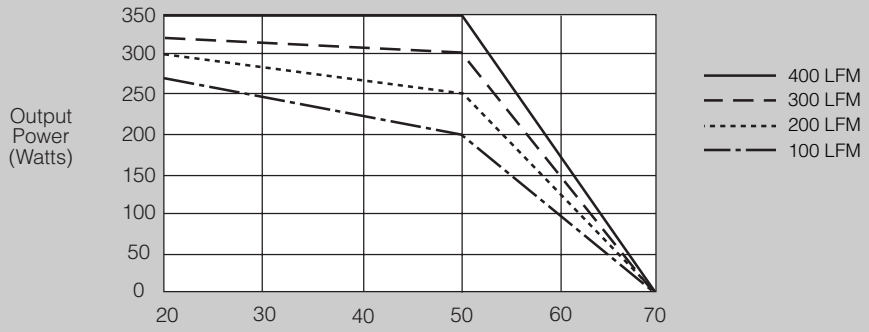
Features:

- 350 Watts 6U x 8 HP (2 slots) x 160mm
- Wide-range AC or 48 Volt DC input
- Standard PCI voltages: 5V, 3.3V, ±12V
- Four output-current options:
  5V/40A, 3.3V/25A, +12V/9A, -12V/2A
  5V/50A, 3.3V/25A, +12V/9A, -12V/2A
  3.3V/50A, 5V/20A, +12V/9A, -12V/2A
  3.3V/60A, 5V/20A, +12V/9A, -12V/2A
- Power correction factor (PFC)
- N+1 redundant and hot swap
- Internal OR-ing diodes
- Single-wire current sharing on 5V, 3.3V, +12V outputs
- Fully shielded
- IEEE1101.10 compliant front panels
- Ruggedized mechanical design
- Optional high-profile cooling fins available on 48V input version
- UL, CUL approval pending
- TUV approval pending
- CE mark pending
- EMC approvals pending
- Two year warranty

RiPower 350-TR Status Indicator

Condition	Power supply on/off	Input OK LED	Fault LED	Fault#
Inputs/outputs OK, EN# low	On	On	Off	Open
INH# signal low	Off	On	On	Low
INH# high, EN# high	Off	On	On	Low
Low AC or DC input	Off	Off	On*	Low
Internal over-temperature	Off	On	On	Low
Output under-voltage	Off**	On	On	Low
Output over-voltage	Off**	On	On	Low
Output short circuit	Off**	On	On	Low

*If the input is below approx. 20V, the FAULTED LED will not illuminate.
**Typically, only the output exhibiting the fault conditions will be off.



Note: LFM is the airflow in feet per minute average through the power supply enclosure.

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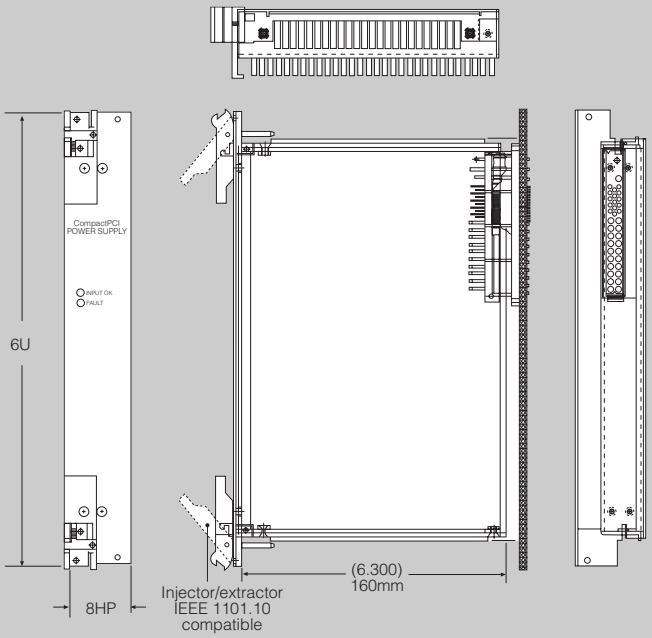
Specifications:

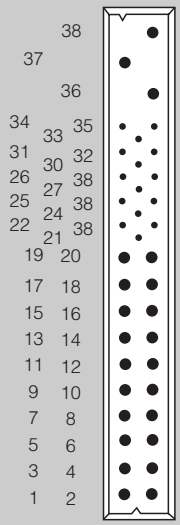
Output Power	350 Watts
Power Factor	0.99 typical
Inrush Current	40 A max.
Efficiency	75% typical
Holdup Time	20 msec min. from input power failure until FAIL# signal drops, at full load and 90-264 Vac.
AC Fail Warning	5 msec min. continued operation after FAIL# signal drops.
Paralleling	Any number of power supplies can be operated in parallel and will share 3.3V/5V/+12V current to within 10%.
Redundant/Hot Swap	Full power N+1 redundant and hot swap operation.
Remote Sense	Compensates for up to 0.25V total distribution voltage drop on the 3.3/5V/ +12V outputs.
Line/Load Regulation	0.5% max. over AC input range and 0-100% load.
Ripple/Noise	50 mV max. for all outputs, peak-to-peak, dc to 20MHz with coaxial probe and 0.1 uF/22uF capacitors at the connector.
Overshoot/Undershoot	None at turn-on or turn-off.
Turn-On Time	1 sec max. from AC power up. All output voltages come up within 10msec of each other.
Current Limiting	All outputs protected against overload and short circuit. Straightline current limiting, does not fold-back or latch-up during startup or load transients. Automatic recovery.
Over-Voltage	Shutdown at 130% of nominal Vout. Recycle power to reset.
Over-Temperature	Shutdown at internal heatsink temperature of 95°C. Recycle power to reset.
Safety	EN60950
EMC	EN55022 Class A conducted and radiated. EN60555-2 harmonic distortion.
Input Fuse	Internal one-pole 10A NTD fuse.
Output Isolation	All outputs and control signals are floating SELV circuits referenced to GND and with 0.1uF/100kOhms to chassis ground and reinforced isolation to the AC primary. Can be connected directly to chassis ground on the system backplane.
Leakage Current	1.5 mA max. at 240 Vac.
Dielectric Strength	2200 Vdc from either AC input to chassis ground.
Indicators	Green LED indicating INPUT OK. Red LED indicating a power supply FAULT.
Connector	Positronic part no. PC138M400A1
Cooling	15cfm/400 Lfm forced air required through power supply cooling fans and enclosure.
Operating Temperature	Full power from -20°C to +35°C with specified air flow. Consult factory for derating with reduced airflow or increased temperature conditions.
Storage Temperature	-40°C to +85°C.
Shock/Vibration	Ruggedized construction to Mil-Hdbk 810E.
Dimensions	See drawing.



2 Slots (8HP)

Connector Pinout Positronic PC138M400A1 (15 signal pin)

Pin #	Signal Name	Usage
1, 2, 3, 4	*+5V*	*5V DC output power*
5-12, 17	*GND*	*Power returns*
13, 14, 15, 16	*+3.3V*	*3.3V DC output power*
18	*+12V*	*12V DC output power*
19, 20, 28	*RSVD*	*RESERVED*
21	*-12V*	*-12V DC output power*
22, 23	*GND*	*Signal return*
24	*+5S*	*Remote sense for 5V output*
25	*EN#*	*Enable input signal*
26	*-Sense*	*Remote sense return for +5S, +3.3S, +12S signals*
27	*+3.3S*	*Remote sense for 3.3V output*
29	*DEG#*	*Degrade output signal*
30	*+12S*	*Remote sense for 12V output*
31	*INH#*	*Inhibit input signal*
32	*+51*	*5V current share*
33	*+3.31*	*3.3V current share*
34	*+121*	*12V current share*
35	*FAIL#*	*Fail output signal*
36	*CGND*	*Chassis ground*
37	*N*	*Neutral (AC input) or 48V return (DC input)*
38	*L*	*Line (AC input) or -48V (DC input). Internally fused.*



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