

1U-High, Front-End Power System Racks

Up to 3600W, For PowerCassette® TPCP Modules

FEATURES

- Holds Three TPCP Modules
- Up to 3600 Watts
- Up to 150A Output
- 12, 24 or 48VDC Output
- Only 1U-High (1.72 Inches)
- IEC60320 C20 Inlet Version
- Terminal Block AC Input Version
- Hot-Swap Operation
- 19-inch or 23-Inch Mounting
- AC Line Cord Ready
- Individual AC Inputs
- Up to 2400W 2+1 Redundant
- I²C Serial Data Bus Option
- Module Present Signal
- +5VDC, 250mA Standby Output
- Stackable for Expansion
- AC Line Filter Version



TPCPR1U3B

RACK ORDERING GUIDE

RACK MODEL NO.	RACK MODULE NO.	CONNECTIONS	MAX. CURRENT
TPCPR1U3A	3	Terminal Block	150A
TPCPR1U3B	3	IEC60320 C-20	150A
TPCPR1U3C	3	IEC62320 C-20 with line filter	150A

For I²C version of rack, add suffix -Z to model number.

SAFETY CERTIFICATIONS

AGENCY	STANDARD
UL	UL60950
CUL	CSA22.2 No.60950
DEMKO	EN60950

TPCP MODULE ORDERING GUIDE

MAX. OUTPUT POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	AC INPUT RANGE	MODEL NUMBER
800W	12VDC	66.7A	85-264VAC	TPCP3000
1000W	24VDC	41.7A	85-264VAC	TPCP5000
1200W	48VDC	25.0A	85-264VAC	TPCP7000

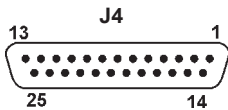
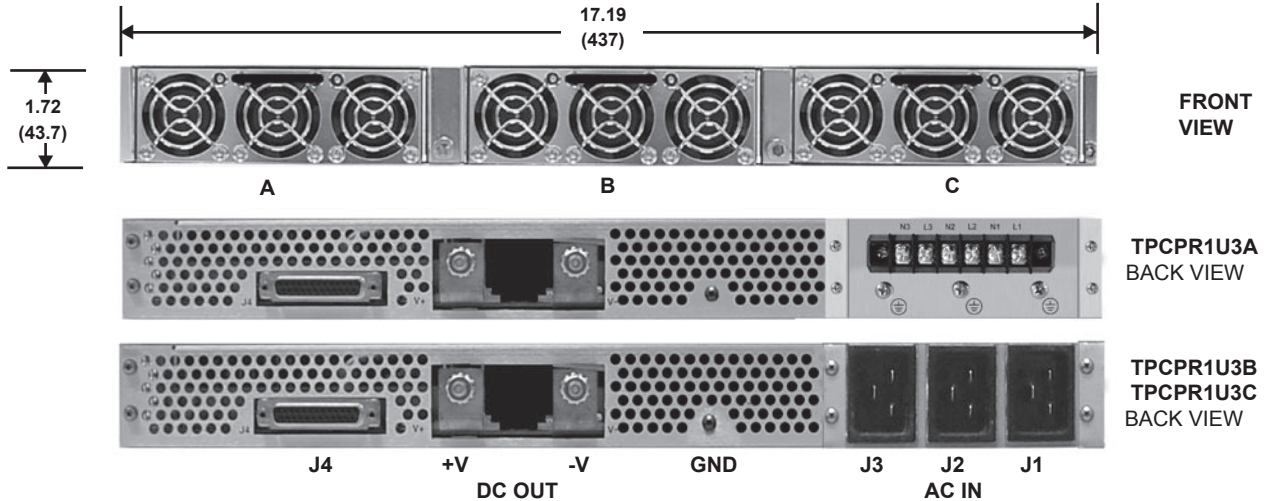
For a complete system, order a rack plus the required number of modules.

For complete specifications on the modules, see PCP/TPCP PowerCassette® data sheet.

ACCESSORIES

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AC Line Cords: 6 ft. long with IEC60320 C-19 connector		
125VAC	with NEMA 5-15 plug. 3x14AWG	Pt. No. 364-1409-0000
205VAC	with NEMA 6-20 plug. 3x14AWG	Pt. No. 364-1413-0000
230VAC	unterminated, 3 x 18AWG	Pt. No. 364-1422-0000
Consult sales for alternate line cord configurations.		
Relay Alarm Adaptor:		
Plugs into rear mounted signal connector and converts DC Good output for each module into Form-C relay contact output. (See separate datasheet for full details.)		Pt. No. 009-1005-0000

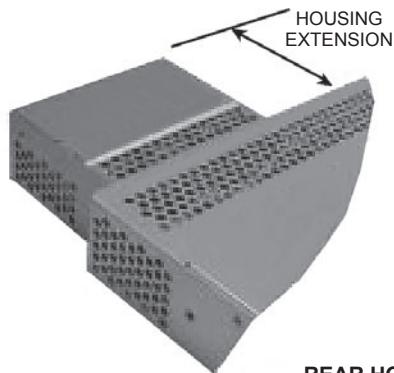
TWO-YEAR WARRANTY

SPECIFICATIONS, TPCPR1U3 150-AMPERE RACK

 Positronics SD25FOS500X
with FC7520D pins

J4 PIN CONNECTIONS

PIN	FUNCTION	PIN	FUNCTION
1	Inhibit	14	AC Power Fail - A
2	Overtemp. Warning - A*	15	DC Power Good - A*
3	Current Monitor - A	16	AC Power Fail - B
4	Overtemp. Warning - B*	17	DC Power Good - B*
5	Current Monitor - B*	18	AC Power Fail - C
6	Overtemp. Warning - C*	19	DC Power Good - C*
7	Current Monitor - C*	20	Module Present -A
8	+5V Standby	21	Module Present -B
9	SDA	22	Module Present - C
10	Current Share	23	- Sense
11	+Sense	24	V Adj. - A
12	V Adj. - B	25	V Adj. - C
13	SCLK		

 *These pins are open when I²C option is used.

NOTE: Standby return is connected to -Sense lead. Current rating of +5V standby is 250mA. All signals are referenced to -Sense lead.

**REAR HOUSING EXTENSION
(FROM REAR PANEL OF RACK)***
ALL DIMENSIONS IN INCHES (mm.)

All specifications subject to change without notice.

OUTPUT: Copper Bus Bars with no. ¼-20 studs with nuts
INPUTS: Terminal Block or IEC60320 C20 AC Inlets

NOTES:

- All electrical connections are made to the rear of the rack. There is one AC connection for each module. AC inlet J1 goes to module A, J2 to module B and J3 to module C.
- Module A is on the left, module B in the center and module C on the right as seen from the rack front.
- The outputs of all TPCP modules are connected in parallel in the rack.
- Rack version "A" has terminal block AC input connections. Version "B" has IEC60320 C-20 inlets. Version "C" has IEC320 C-20 AC filtered inlets.
- The input voltage range is 85-264 VAC for maximum power in either redundant or non-redundant operation.
- The Module Present outputs (J4 pins 20, 21 and 22) are grounded (to -Sense) when the module is plugged in and open when the module is out.
- For further details on the control signals on J4, see the *PowerCassette*® PCP/TPCP data sheet or operating manual.
- For details on I²C data (J4 pins 9 and 13), see PCP/TPCP operating manual or contact factory.

MAXIMUM RATED OUTPUT					
3 MODULES NON-REDUNDANT			3 MODULES 2+1 REDUNDANT		
VOLTAGE	CURRENT	POWER	VOLTAGE	CURRENT	POWER
12VDC	150A	1800W	12VDC	133.3A	1600W
24VDC	125A	3000W	24VDC	83.3A	2000W
48VDC	75A	3600W	48VDC	50.0A	2400W

RACK MODEL NUMBER	EXTENSION INCHES (MM)	TOTAL DEPTH INCHES (MM)
TPCPR1U3A	1.10" (27.9)	12.66" (322)
TPCPR1U3B	1.59" (40.4)	13.15" (334)
TPCPR1U3C	3.32" (84.3)	14.88" (378)

*Front panel to back panel depth is 11.56 inches (294mm).

tpcpr1u3-revD-07-21-06