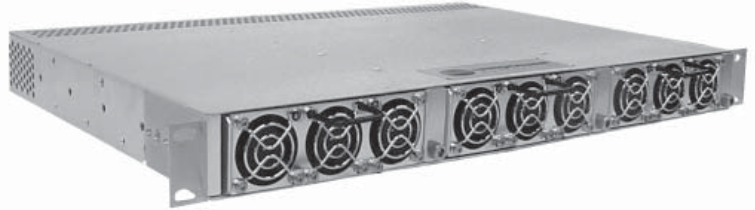


# 1U-High, Front End Power System Racks

## Up to 2400W for *PowerCassette*® TPCG or TPCM Modules

### FEATURES

- Holds Three TPCG or TPCM Modules
- Case Only 11.56 Inches (294 mm) Deep
- AC Line Cord Ready
- Front or Rear AC Entry
- Individual AC Inputs
- 12, 24 or 48VDC Output
- Hot-Swap Operation
- Up to 1600W 2+1 Redundant
- Up to 2400W Non-Redundant
- Only 1U-High (1.72 mm)
- 19- or 23-Inch Rack Mounting
- Stackable for Expansion
- +5V, 250mA Standby Output
- I<sup>2</sup>C Serial Data Bus Option
- Module Present Signal
- Control & Monitoring Signals
- Rear Output & Signal Connections



**TPCMR1U3**  
Rear AC Access Shown

### RACK ORDERING GUIDE

RACK MODEL NO.	RACK MODULE NO.	CONNECTIONS	MAX. CURRENT
TPCMR1U3	3	All Rear Entry	150A
TPCMR1U3-E (for TPCM Option E only)	3	AC Front Entry DC Rear Output Signals Rear Entry	120A

For I<sup>2</sup>C version of rack, add suffix -Z to model number.

### TPCG MODULE ORDERING GUIDE

MAX. OUTPUT POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	AC INPUT RANGE	MODEL NUMBER
370W	12VDC	30.8A	85-264VAC	TPCG3000
400W	24VDC	16.7A	85-264VAC	TPCG5000
450W	48VDC	9.4A	85-264VAC	TPCG7000

### TPCM MODULE ORDERING GUIDE

MAX. OUTPUT POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	AC INPUT RANGE	MODEL NUMBER
350W	12VDC	54.2A	85-264VAC	TPCM3000
700W	24VDC	29.2A	85-264VAC	TPCM5000
800W	48VDC	16.7A	85-264VAC	TPCM7000

### SAFETY STANDARDS

- UL60950
- CSA22.2 No.60950
- EN60950

### ACCESSORIES

ACCESSORIES		
<b>AC Line Cords:</b> 6 ft. long with IEC60320 C-14 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. 364-1421-0000
Consult sales for alternate line cord configurations.		
<b>Relay Alarm Adaptor:</b>		
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

### FRONT AC ACCESS MODULES\*

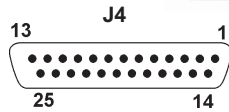
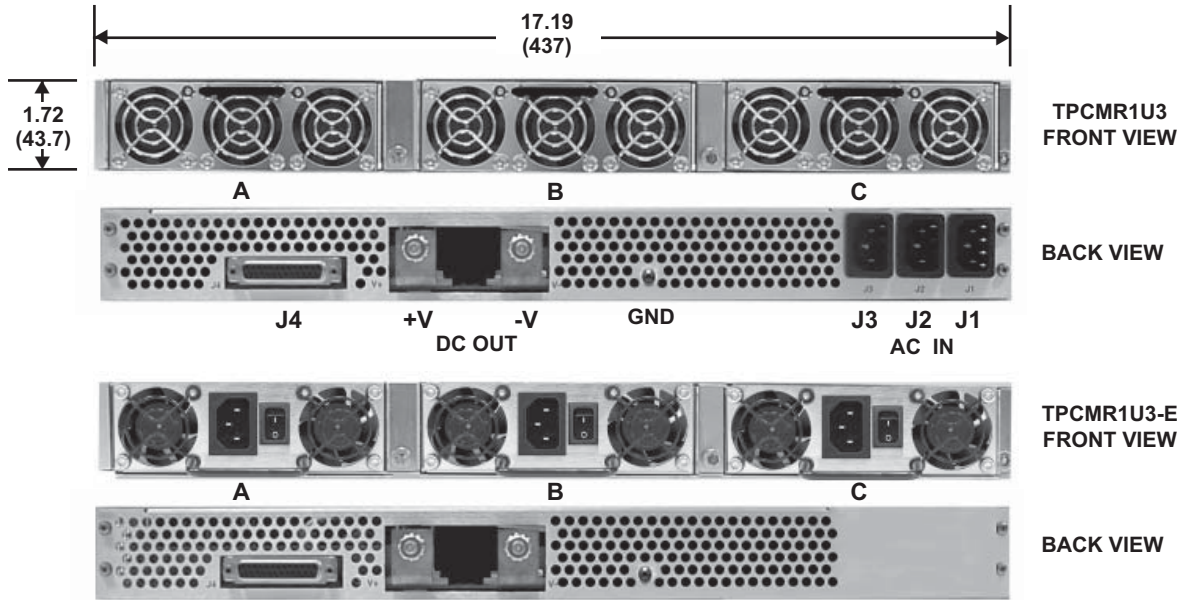
MAX. OUTPUT POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	AC INPUT RANGE	MODEL NUMBER
480W	12VDC	40.0A	85-264 VAC	TPCM3000E
525W	24VDC	21.9A	85-264 VAC	TPCM5000E
600W	48VDC	12.5A	85-264 VAC	TPCM5000E

\* Front AC entry with reduced output currents for 3-unit racks.

For a complete system, order a rack plus the required number of modules. For complete specifications on the modules see PCG/TPCG or PCM/TPCM *PowerCassette*® data sheets.

### TWO-YEAR WARRANTY

## SPECIFICATIONS, 150-AMPERE FRONT OR REAR AC ACCESS 19-INCH RACKS



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 I<sup>2</sup>C 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.

**OUTPUT:** Copper bus bars with no. 1/4-20 studs and nuts.  
**INPUT:** AC inlets are IEC60320 C14

### NOTES:

- All electrical connections are made to the rear of the standard rack. For Option E, the AC inputs are made to the C14 inlets on the front of each Option E module. There is one AC inlet for each module. Connector J1 goes to module A, connector J2 to module B and connector 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 *PowerCassette*® modules are connected in parallel in the rack.
- The rack depth is 11.56 inches (294mm).
- The input voltage range is 85-264 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*® PCG/TPCG or PCM/TPCM data sheet or operating manuals.
- For details on I<sup>2</sup>C data (J4 pins 9 and 13) see PCM/ TPCM operating manual or contact factory.

### TPCMR1U3 MAX. OUTPUT WITH MODULES

3 MODULES - NON-REDUNDANT								
TPCG			TPCM			TPCM-E		
								POWER
12VDC	92.4A	1110W	12VDC	150A	1800W	12VDC	120A	1440W
24VDC	50.1A	1200W	24VDC	87.5A	2100W	24VDC	65.6A	1575W
48VDC	28.20A	1350W	48VDC	50.0A	2400W	48VDC	37.5A	1800W
3 MODULES - 2+1 REDUNDANT								
TPCG			TPCM			TPCM-E		
12VDC	61.6A	740W	12VDC	108.4A	1300W	12VDC	80.0A	960W
24VDC	33.4A	800W	24VDC	58.3A	1400W	24VDC	43.8A	1050W
48VDC	18.8A	900W	48VDC	33.3A	1600W	48VDC	25.0A	1200W

**ALL DIMENSIONS IN INCHES (mm.)**

All specifications subject to change without notice.

tpcmr1u3-ds-revB-04-06-10