

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
- I²C 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 I²C 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 CERTIFICATIONS

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

ACCESSORIES

AC Line Cords: 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.		
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

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

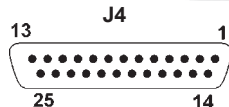
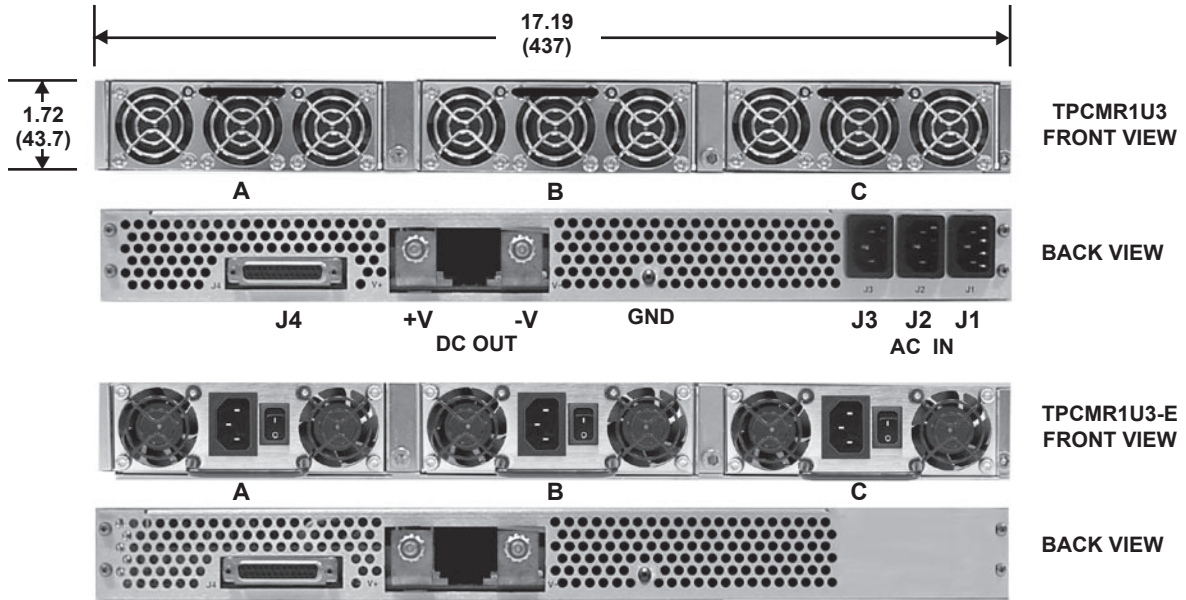
* Front AC entry with reduced output currents for 3-unit racks.

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

www.unipowercorp.com or www.powercassette.com

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 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.

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 I²C 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		
VOLTAGE	CURRENT	POWER	VOLTAGE	CURRENT	POWER	VOLTAGE	CURRENT	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.

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