

## 1U High Front End Power System Racks

### 75A Full Front Access 19-Inch Rack

TPCMR1U2



UL Listed

#### FEATURES

- Holds Two TPCM or TPCP Models
- Fits 12-Inch Max. ETSI Depth
- AC Line Cord Ready
- Quick Connect Input/Output
- Individual AC Inputs
- 12, 24 or 48VDC Output
- Hot-Swap Operation
- Up to 1200W 1+1 Redundant
- Up to 2400W Non-Redundant
- Only 1U High (1.72 inches)
- 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

#### RACK ORDERING GUIDE

RACK MODEL NO.	MAX. NO. MODULES	CONNECTIONS	MAX. CURRENT
TPCMR1U2	2	All Front Entry	75A

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

#### TPCM MODULE ORDERING GUIDE

MAX. POWER	OUTPUT VOLTAGE AND CURRENT	AC INPUT RANGE	MODEL NO.
600W	12VDC@ 50.0A	85-264 VAC	TPCM3000
700W	24VDC@ 29.2A	85-264 VAC	TPCM5000
800W	48VDC@ 16.7A	85-264 VAC	TPCM7000
480W	12VDC@ 40.0A	85-264 VAC	TPCM3000E
525W	24VDC@ 21.9A	85-264 VAC	TPCM5000E
600W	48VDC@ 12.5A	85-264 VAC	TPCM7000E

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

### 150A Front or Rear Access 19-Inch Rack

TPCMR1U3



#### FEATURES

- Holds Three TPCM or TPCP Models
- Case Only 11.56 Inches (294 mm) Deep
- AC Line Cord Ready
- Front or Rear AC Entry (TPCM)
- Individual AC Inputs
- 12, 24 or 48VDC Output
- Hot-Swap Operation
- Up to 2400W 2+1 Redundant
- Up to 3600W 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

#### RACK ORDERING GUIDE

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

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

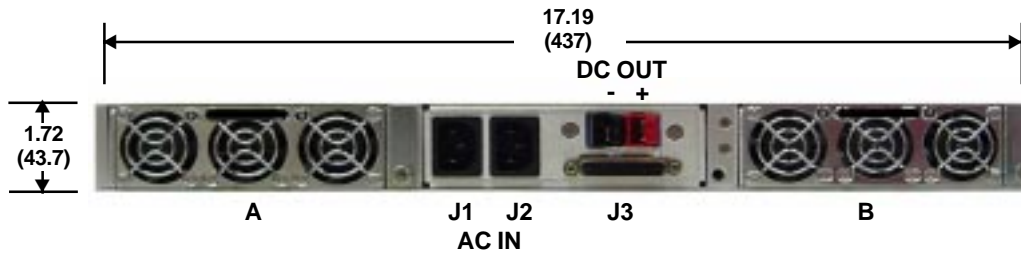
#### TPCP MODULE ORDERING GUIDE

MAX. POWER	OUTPUT VOLTAGE AND CURRENT	AC INPUT RANGE	MODEL NO.
800W	12VDC@ 66.7A	85-264 VAC	TPCP3000
1000W	24VDC@ 41.7A	85-264 VAC	TPCP5000
1200W	48VDC@ 25.0A	85-264 VAC	TPCP7000

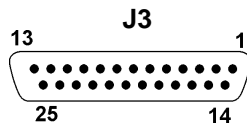
### TWO-YEAR WARRANTY

## SPECIFICATIONS, 75-AMPERE FULL FRONT ACCESS 19-INCH RACK

### FRONT VIEW



### BACK VIEW



J3 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	NC
6	NC	19	NC
7	NC	20	Module Present - A
8	+5V Standby	21	Module Present - B
9	SDA	22	NC
10	Current Share	23	- Sense
11	+Sense	24	V Adj. - A
12	V Adj. - B	25	NC
13	SCLK		

NC = No Connection

\* These signals 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.

### TPCM MAXIMUM RATED OUTPUT

NON-REDUNDANT		1+1 REDUNDANT	
12VDC @ 75A	900W	12VDC @ 50A	600W
24VDC @ 58.3A	1400W	24VDC @ 29.2A	700W
48VDC @ 33.3A	1600W	48VDC @ 16.7A	800W

### TPCP MAXIMUM RATED OUTPUT

NON-REDUNDANT		1+1 REDUNDANT	
12VDC @ 75A	900W	12VDC @ 66.7A	800W
24VDC @ 75A	1800W	24VDC @ 41.7A	1000W
48VDC @ 50A	2400W	48VDC @ 25A	1200W

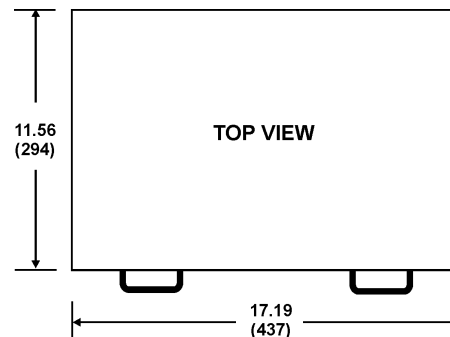
ALL DIMENSIONS IN INCHES (mm). All specifications subject to change without notice.

**OUTPUT:** ANDERSON-TYPE CONNECTORS  
 ANDERSON No. 5916 WITH 5952 CONTACTS  
 RED = + Output  
 BLACK = - Output

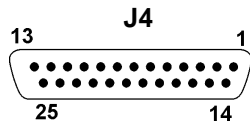
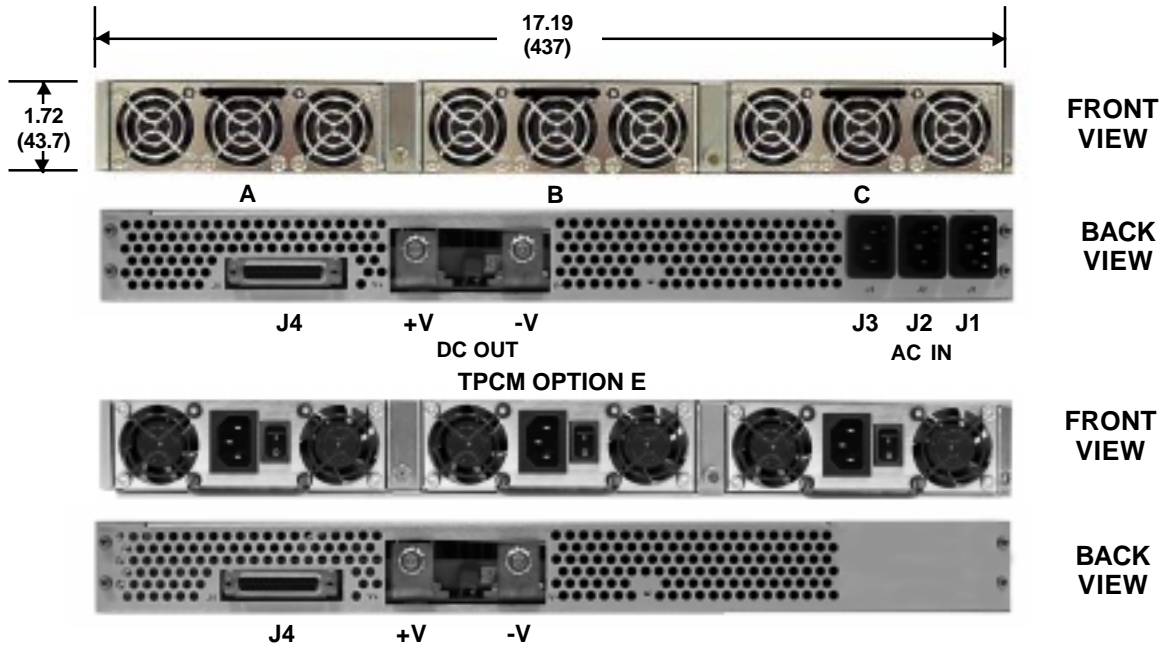
A mating connector kit is supplied with the rack providing mating connectors to J3 and the Anderson type connectors.

### NOTES:

- Input voltage range is 85-264VAC for maximum power in either redundant or non-redundant operation.
- The outputs of the two PowerCassette modules are connected in parallel in the rack.
- The rack depth is 11.56 inches (294mm).
- Module A is on the left and module B on the right as seen from the front of the rack. AC input connector J1 goes to module A and J2 to module B.
- For further details on the control signals on J3 see the PowerCassette PCM/TPCM or PCP/TPCP data sheet or operating manuals.
- For details on I<sup>2</sup>C data (J3 pins 9 and 13) see PCM/TPCM operating manual or contact factory.
- The Module Present outputs (J3 pins 20 and 21) are grounded (to -Sense) when the module is plugged in and open when the module is out.



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



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 signals 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.

### TPCM MAXIMUM RATED OUTPUT

NON-REDUNDANT		2+1 REDUNDANT	
12VDC @ 150A	1800W	12VDC @ 100A	1200W
24VDC @ 87.5A	2100W	24VDC @ 58.3A	1400W
48VDC @ 50.0A	2400W	48VDC @ 33.3A	1600W

### OPTION E\*

12VDC @ 120A	1440W	12VDC @ 80.0A	960W
24VDC @ 65.7A	1576W	24VDC @ 43.8A	1051W
48VDC @ 37.5A	1800W	48VDC @ 25.0A	1200W

\* Output currents reduced.

**OUTPUT:** Copper bus bars with no. 1/4-20 studs with nuts.

### NOTES:

- All electrical connections are made to the rear of the standard rack. For Option E, the AC inputs are made to the IEC60320 connectors on the front of each Option E module. There is one AC connector 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 front of the rack.
- 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 PCM/TPCM or PCP/TPCP 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.

### TPCP MAXIMUM RATED OUTPUT

NON-REDUNDANT		2+1 REDUNDANT	
12VDC @ 150A	1800W	12VDC @ 133A	1600W
24VDC @ 125A	3000W	24VDC @ 83.4A	2000W
48VDC @ 75A	3600W	48VDC @ 50A	2400W