

PowerCassette® Series

1U & 1½U POWER SUPPLIES

- AC/DC FRONT ENDS
- QUICK-SET MULTI-OUTPUT
- DC/DC CONVERTERS



UNIPOWER
CORPORATION

**LEADER IN HIGH-DENSITY,
HOT-SWAP POWER SOLUTIONS**

www.powercassette.com

THE **PowerCassette®** CONCEPT



Unipower's unique PowerCassette® series of switching power supplies was first introduced in February, 2001. Unipower engineers conceived a new "cellular" architecture for multi-output power supplies, which permits quick factory programming of output voltages by means of miniature internal switches. The result is an "instant" custom power supply.

This new design anticipates the most common hierarchies of voltages and currents in addition to other important features demanded by 90% of today's networking, storage and communication requirements. High efficiency, 1U ultra-compact size, hot-swappability, and self-cooling as well as DC inputs were design requirements.

Since the original 600-watt multi-output series, an 800-watt multi, 800 and 1200-watt front ends, and 24 and 48V input DC/DC converter versions have been added to the product line. The PowerCassette family now consists of 7 basic model series. All versions are available in chassis-mount or hot-swap models. All hot-swap models (except the TPCL series) have available 1U, 19-inch compatible racks.

The important features incorporated into the PowerCassette family include input power factor correction, dual main outputs, Class B input EMI filter, 1U (1.6 inches or 41mm) height, wide input range, a 5VDC standby output, single-wire active current sharing, LED status indicators, output ORing diodes, protective features, supervisory signals and an I²C serial data bus option.



LVD73/23/EEC

SAFETY CERTIFICATIONS

AGENCY	STANDARD
UL	UL1950
CUL	CSA22.2, No. 950
DEMKO	EN60950

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LEADER IN HIGH-DENSITY, HOT-SWAP POWER SOLUTIONS



PowerCassette® AC/DC FRONT ENDS

FEATURES

- ◆ Up to 1200W Output
- ◆ 12, 24 or 48VDC Output
- ◆ 5VDC Standby Output
- ◆ Up to 15W/Cu. Inch
- ◆ Power Factor Corrected
- ◆ Class B EMI Input Filter
- ◆ Hot-Swap or Chassis Mount
- ◆ ORing Diode on Output
- ◆ Active Current Sharing
- ◆ Integral LED Status Indicators
- ◆ Control & Monitoring Signals
- ◆ I²C Serial Data Option
- ◆ Compatible 19-Inch Racks



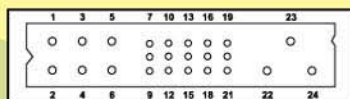
Patent Protected

TWO-YEAR WARRANTY

DELETE "T" PREFIX TO MODEL NO. FOR CHASSIS-MOUNT VERSION

MODEL NUMBER	MAX. POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	REGULATION	INPUT VOLTAGE	PFC	CLASS B EMI FILTER
TPCP7000	1200W	48VDC	25.0A	2%	85-264VAC	✓	✓
TPCM7000	800W	48VDC	16.7A	2%	85-264VAC	✓	✓
TPCM7000E	600W	48VDC	12.5A	2%	85-264VAC	✓	✓
TPCP5000	1000W	24VDC	41.7A	2%	85-264VAC	✓	✓
TPCM5000	700W	24VDC	29.2A	2%	85-264VAC	✓	✓
TPCM5000E	525W	24VDC	21.9A	2%	85-264VAC	✓	✓
TPCP3000	800W	12VDC	66.7A	2%	85-264VAC	✓	✓
TPCM3000	650W	12VDC	54.2A	2%	85-264VAC	✓	✓
TPCM3000E	480W	12VDC	40.0A	2%	85-264VAC	✓	✓

For compatible 19-inch racks see back page.



SINGLE 24-PIN
POSITRONICS CONNECTOR:
PCIB24W9M400A1
MATE: PCIB24W9F400A1

For complete data, go to www.powercassette.com



PowerCassette® QUICK-SET MULTI-OUTPUT

FEATURES

- ◆ Switch-Settable Outputs
- ◆ Dual Main Outputs
- ◆ Up to 6 Outputs
- ◆ 600 or 800W Outputs
- ◆ 1.8 to 12VDC Outputs
- ◆ 5VDC Standby Output
- ◆ 254 Output Combinations
- ◆ Power Factor Corrected
- ◆ Class B EMI Input Filter
- ◆ Hot-Swap or Chassis-Mount
- ◆ Active Current Sharing
- ◆ ORing Diodes on Outputs
- ◆ I²C Serial Data Option
- ◆ Compatible 19-Inch Racks



TPCHS/TPCHQS
AC or DC Input

1U High
1.6" x 5" x 11"
(41 x 127 x 279 mm)

1.5U High
2.47" x 5" x 11"
(63 x 127 x 279 mm)



TPCL
AC Input

Patent Protected

TWO-YEAR WARRANTY

CHASSIS-MOUNT VERSION DOES NOT HAVE "T" PREFIX

MODEL NUMBER	MAX. POWER	MAX. NO. OUTPUTS	OUTPUT VOLTAGES	OUTPUT COMBIN.	HOT-SWAP	REGULATION	INPUT VOLTAGE	PFC
TPCHS-XXXXX	600W	6	TABLE 1	254	✓	2%	85-264VAC	✓
PCHS-XXXXX	600W	6	TABLE 1	254		2%	85-264VAC	✓
TPCHQS-XXXXX	600W	6	TABLE 1	254	✓	2%	36-72VDC	
PCHQS-XXXXX	600W	6	TABLE 1	254		2%	36-72VDC	
TPCL-XXXXX	800W	6	TABLE 2	254	✓	2%	85-264VAC	✓
PCL-XXXXX	800W	6	TABLE 2	254		2%	85-264VAC	✓

For compatible 19-inch racks for TPCHS and TPCHQS, see back page.

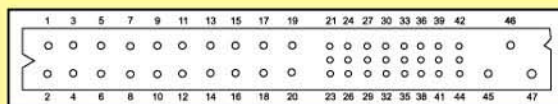
TABLE 1. 600W OUTPUTS (V/A)

V1	1.8/70	2.5/70	3.3/70	5/70
	12/35	2.5/100	3.3/100	5/100
V2	2.5/50	3.3/50	5/50	
V3	5/10	12/10		
V4	12/3	-12/3		
V5	1.8/3	2.5/3	3.3/3	5/3 -5/3 -5.2/3
V6	5V, 250mA standby output			

TABLE 2. 800W OUTPUTS (V/A)

V1	1.8/75	2.5/75	3.3/75	5/75
	12/35	2.5/150	3.3/150	5/150
V2	2.5/75	3.3/75	5/75	
V3	5/15	12/15		
V4	12/3	-12/3		
V5	1.8/3	2.5/3	3.3/3	5/3 -5/3 -5.2/3
V6	5V, 250mA standby output			

For complete data, go to
www.powercassette.com



AC INPUT SINGLE 47-PIN
POSITRONICS CONNECTOR:
PCIH47M400A1
MATE: PCIH47F400A1
DC INPUT HAS A 2ND 3-PIN
CONNECTOR



PowerCassette® DC/DC CONVERTERS

FEATURES

- ◆ Up to 1000W Output
- ◆ Single Output
- ◆ Up to 12.5W/Cu. Inch
- ◆ 5VDC Standby Output
- ◆ Output ORing Diodes
- ◆ Active Current Sharing
- ◆ Wide Range DC Input
- ◆ Hot-Swap or Chassis-Mount
- ◆ Integral LED Status Indicators
- ◆ Control and Monitoring Signals
- ◆ I²C Serial Data Bus Option
- ◆ Compatible 19-Inch Racks



PCM Series
Chassis Mount



TPCM Series
Hot-Swap

1U High
1.6" x 5" x 10"
(41 x 127 x 254 mm)

Patent Protected

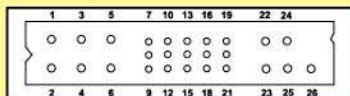
TWO-YEAR WARRANTY

DELETE "T" PREFIX TO MODEL NO. FOR CHASSIS-MOUNT VERSION

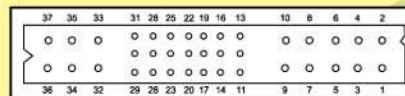
MODEL NUMBER	MAX. POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	NO. OF OUTPUTS	REGU-LATION	DC INPUT VOLTAGE
TPCMQ48-12/54	650W	12VDC	54.2A	1	2%	40-60VDC
TPCMQ48-24/29	700W	24VDC	29.2A	1	2%	40-60VDC
TPCMQ48-27/26	700W	27.2VDC	25.7A	1	2%	40-60VDC
TPCMQ24-48/20	1000W	48VDC	20.8A	1	2%	20-30VDC
TPCMQ24-54/18	1000W	54.4VDC	18.4A	1	2%	20-30VDC

For compatible 19-inch racks, see back page.

PCM48/TPCM48
SINGLE 26-PIN
POSITRONICS CONNECTOR:
PCIB26W11M400A1
MATE: PCIB26W11F400A1



PCM24/TPCM24
SINGLE 37-PIN
POSITRONICS CONNECTOR:
PCIM37W16RM400A1
MATE: PCIM37W16RF400A1



For complete data, go to www.powercassette.com



PowerCassette® 1U, 19-INCH RACKS

AC/DC RACKS

TPCHR1U2: FRONT OR REAR AC ACCESS

Holds 2 TPCHS Multi-Output Modules • Up To 1200 Watts Non-Redundant • Up To 600 Watts 1+1 Redundant



TPCHR1U3: REAR ACCESS

Holds 3 TPCHS Multi-Output Modules • Up To 1200 Watts Non-Redundant • Up To 1200 Watts 2+1 Redundant



TPCMR1U2: FRONT ACCESS

Holds 2 TPCM or TPCP Front-End Modules • Up To 2400 Watts Non-Redundant • Up To 1200 Watts 1+1 Redundant



TPCMR1U3: REAR ACCESS

Holds 3 TPCM or TPCP Front-End Modules • Up To 3600 Watts Non-Redundant • Up To 2400 Watts 2+1 Redundant



TPCMR1U3E: FRONT AC ACCESS

Holds 3 TPCME Front-End Modules • Up To 1800 Watts Non-Redundant • Up To 1200 Watts 2+1 Redundant



DC/DC RACKS

TPCHQR1U2: FRONT OR REAR INPUT ACCESS

Holds 2 TPCHQS Multi-Output Modules • Up To 1200 Watts Non-Redundant • Up To 600 Watts 1+1 Redundant



TPCHQR1U3: REAR ACCESS

Holds 3 TPCHQS Multi-Output Modules • Up To 1200 Watts Non-Redundant • Up To 1200 Watts 2+1 Redundant



TPCMQR1U3-48: REAR ACCESS

Holds 3 TPCM48 Single Output Modules • Up To 2100 Watts Non-Redundant • Up To 1400 Watts 2+1 Redundant



TPCMQR1U3-24: REAR ACCESS

Holds 3 TPCM24 Single-Output Modules • Up To 3000 Watts Non-Redundant • Up To 2000 Watts 2+1 Redundant



For complete data, go to www.powercassette.com

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