UNIPOWER CORPORATION

Multi-Output *PowerCassette*® Two- or Three-Unit 19-Inch Racks

1200W, Up to 6 Outputs with Hot-Swap

FEATURES

- Standard 19-Inch Racks
- Only 1U High (1.72")
- Up to 6 Outputs
- 1.8 to 12VDC Output Voltages
- +5V 1A Standby Output
- Hot-Swap Operation
- Holds 2 or 3 *PowerCassettes*®
- AC or DC Input Versions
- Class B EMI Input Filter
- 1200W Non-Redundant
- 600W or 1200W Redundant
- Current-Shared Outputs
- IEC60320 or Term. Block Inputs
- Front or Rear Inputs
- I2C Serial Data Bus Option
- Optional 23-Inch Mounting
- Optional Rear Plastic Cover
- Module Present Signal
- Control & Monitoring Signals

TWO-YEAR WARRANTY

TWO-UNIT
TPCHR1U2/TPCHQR1U2

THREE-UNIT
TPCHR1U3/TPCHQR1U3

CE
LVD73/23/EEC

SAFETY CERTIFICATIONS

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

ORDERING GUIDE

MODEL NO.: **TPCHR1U2 -**
TPCHQR1U2 -
TPCHR1U3 -
***TPCHQR1U3 -**

□ - □

C: For clear plastic rear safety cover.

Suffix for input connector(s) (See Tables).

*** Contact factory about this DC input model.**

These racks are compatible with TPCHS Series Multi-Output PowerCassette.
For further information on this power system, see PCHS/TPCHS PowerCassette data sheet.

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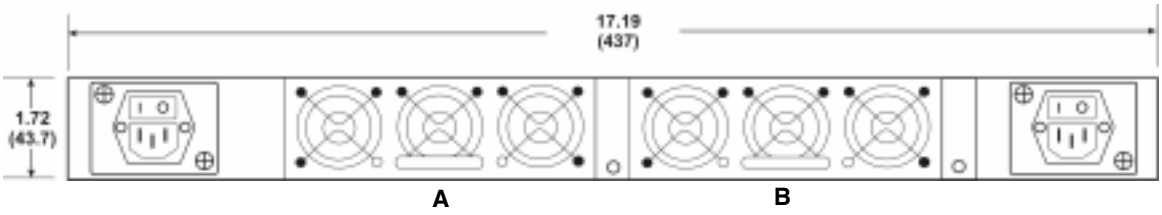
SPECIFICATIONS, Multi-Output *PowerCassette*® Two-Unit Rack

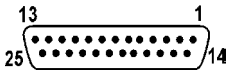
FRONT VIEW



BACK VIEW

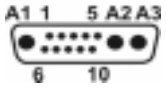
V1 & V2 Connections are to No. □ - 20 bolts

P2



P2 PIN CONNECTIONS			
PIN	**FUNCTION**	**PIN**	**FUNCTION**
1	Inhibit-B	14	Input Power Fail-B
2	Output Good/Data-B	15	Serial Clock-B
3	+5V Standby-B	16	Interrupt-B
4	Module Present-B	17	Common
5	Spare 1	18	+V3 Sense
6	Spare 2	19	-V3 Sense
7	Spare 3	20	+V2 Sense
8	-V1 Sense	21	-V2 Sense
9	+V1 Sense	22	Module Present-A
10	Common	23	Interrupt-A
11	+5V Standby-A	24	Serial Clock-A
12	Output Good/Data-A	25	Input Power Fail-A
13	Inhibit-A		

P1



P1 PIN CONNECTIONS			
PIN	**FUNCTION**	**PIN**	**FUNCTION**
A1	V3 Common	5	V4 Out
A2	+V3 Out	6	-V3 Sense
A3	+V3 Out	7	-V2 Sense
1	+V3 Sense	8	-V1 Sense
2	+V2 Sense	9	V5 Common
3	+V1 Sense	10	V5 Out
4	V4 Common		

INPUT CONNECTOR DESIGNATION

INPUT CONNECTOR	SINGLE/ DUAL CONN.	CONNECTOR POSITION	AC INPUT TPCHR1U2	DC INPUT TPCHQR1U2	MODEL SUFFIX
IEC60320	Dual	Front	✓		A
IEC60320	Dual	Rear	✓		B
IEC60320	Single	Front	✓		C*
IEC60320	Single	Rear	✓		D*
TERM. BLK	Dual	Front	✓	✓	E
TERM. BLK	Dual	Rear	✓	✓	F
TERM. BLK	Single	Front	✓	✓	G
TERM. BLK	Single	Rear	✓	✓	H

* See Note 1

NOTES

1. Maximum output power rating is 1200 watts for all models except Model Suffixes C and D (for input connector designation). For these two models the maximum output power is 600 watts for 100-120VAC input or 1000 watts for 200-240 VAC input. Thus for 100-120 VAC input the two PowerCassette models can be employed in a 1+1 redundant configuration or for 200-240 VAC they can be employed in a non-redundant configuration but only up to 1,000 watts output power. There are no limitations for DC input models all of which can produce up to 1,200 watts output with 36-72 VDC input.
2. All outputs from the two PowerCassette modules are connected in parallel in the rack except the +5V 1A Standby outputs which must be externally paralleled by connecting P2 pins 3 and 11 together.
3. The rack depth is 14.00 inches (356 mm). The clear plastic rear cover (Option C) adds 2.09 inches (53.1 mm) to the depth for a total of 16.09 inches (409 mm).
4. The V1 and V2 Returns and V3, V4 and V5 Commons are all connected together in the rack. It is recommended, however, that the Returns and Commons be separately connected to their respective loads.
5. The front view arbitrarily shows dual IEC60320 connectors; the back view shows dual terminal block connectors.
6. Module A is on the left; module B is on the right (as seen from the front).
7. For dual input racks, each input goes separately to the PowerCassette on the same side of the rack.
8. For details on other control signals, see PowerCassette PCHS/ TPCHS data sheet or operating manual.
9. For details on I2C data (P2 pins 2, 12, 15, 16, 23 & 24), see PowerCassette Operating Manual or contact factory.
10. The Module Present outputs (P2 pins 4 & 22) are grounded when the module is plugged in; otherwise they are open circuit.
11. Dual-feed input isolation diodes can be provided for DC input models. Please contact factory.

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

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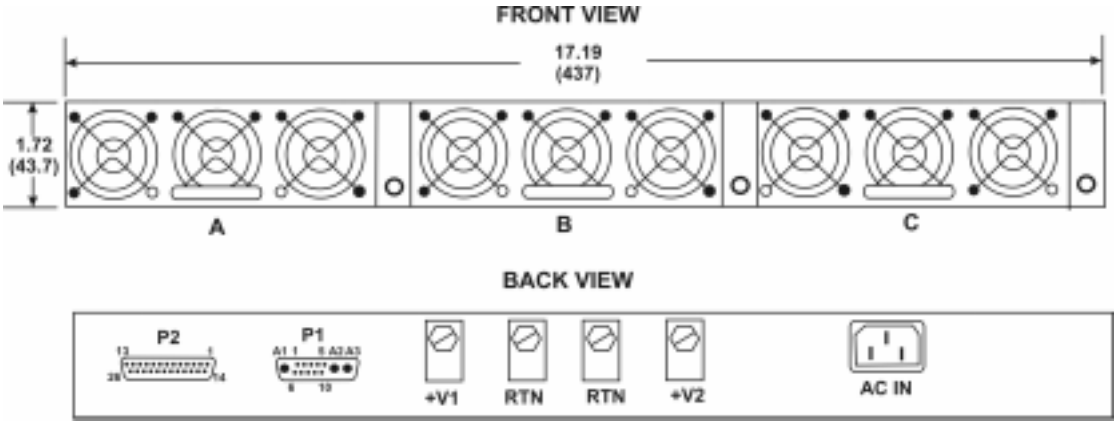
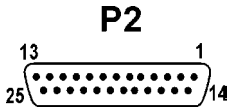
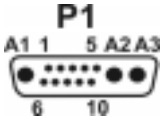
SPECIFICATIONS, Multi-Output *PowerCassette*® Three-Unit Rack



V1 & V2 Connections are to No. □ - 20 bolts





P2 PIN CONNECTIONS			
PIN	**FUNCTION**	**PIN**	**FUNCTION**
1	Output Good/ Data-A	14	Input Power Fail-A
2	+5V Standby-A	15	Inhibit-A
3	Overtemp./Ser.Clock-A	16	Module Present-A
4	Interrupt-A	17	N.C.
5	N.C.	18	N.C.
6	Output Good/Data-B	19	Input Power Fail-B
7	+5V Standby-B	20	Inhibit-B
8	Overtemp./Ser.Clock-B	21	Module Present-B
9	Interrupt-B	22	N.C.
10	Output Good/Data-C	23	Input Power Fail-C
11	+5V Standby-C	24	Inhibit-C
12	Overtemp./Ser.Clock-C	25	Module Present-C

P1 PIN CONNECTIONS			
PIN	**FUNCTION**	**PIN**	**FUNCTION**
A1	Common	5	V4 Out
A2	+V3 Out	6	-V3 Sense
A3	+V3 Out	7	-V2 Sense
1	+V3 Sense	8	-V1 Sense
2	+V2 Sense	9	Common
3	+V1 Sense	10	V5 Out
4	Common		

INPUT CONNECTOR DESIGNATION

INPUT CONNECTOR	CONNECTOR POSITION	MAX. POWER	AC INPUT VOLTAGE	MODEL SUFFIX
IEC60320, C14	Rear	1200W	200-240 VAC	D
Term. Block	Rear	1200W	100-240 VAC	H

For information on DC input rack, contact factory.

NOTES

1. Maximum output power rating is 1200 watts for all AC and DC input, three-unit racks. This means that three modules can be operated in a 2+1 redundant configuration to produce 1200 watts output but not in a non-redundant configuration for more than 1200 watts.
2. All outputs from the three PowerCassette modules are connected in parallel in the rack except the +5V 1A Standby outputs which must be externally paralleled by connecting P2 pins 2, 7 and 11 together.
3. The rack depth is 15.06 inches (384 mm). The clear plastic rear cover (Option C) adds 2.09 inches (53.1 mm) to the depth for a total of 17.15 inches (436 mm).
4. The V1 and V2 Returns and V3, V4 and V5 Commons are all connected together in the rack. It is recommended, however, that the Returns and Commons be separately connected to their respective loads.
5. Module A is on the left and module C is on the right as seen from the front.
6. For details on other control signals, see PowerCassette PCHS/TPCHS data sheet or operating manual.
7. For details on I2C data (P2 pins 1, 3, 4, 6, 8, 9, 10, 12 and 13), see PowerCassette Operating Manual or contact factory.
8. The Module Present outputs (P2 pins 16, 21 and 25) are grounded when the module is plugged in;