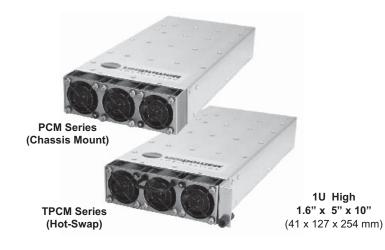


PowerCassette®: NEXT GENERATION FRONT-END SWITCHER 1U High, Up to 800 Watts with PFC and Integral Hot Swap Provision

FEATURES

- Includes Isolated 5V, ¼ A Standby Output
- Hot-Swap or Chassis Mount Versions
- 12, 24 or 48 VDC Outputs
- Integral LED Status Indicators
- I²C Serial Data Bus Option
- Up to 10 Watts/Cubic Inch Power Density
- Power Factor Corrected
- Low Profile: 1.6 Inches High
- Single Hot-Swappable Connector
- AC Front Entry Version
- Reverse Air Flow Option
- Staged Pin Engagement
- ORing Diode on Output
- 1U, 19" Racks Hold 2 or 3 Units*
- Active Current Sharing
- Universal 85 to 264VAC Input
- Class B EMI Input Filter
- Optimized Thermal Management
- No Minimum Load
- Control & Monitoring Features

*TPCM Models





Three-Unit Rack

TWO-YEAR WARRANTY Patents Issued & Pending

STANDARD & OPTIONAL MODELS

Delete "T" prefix to model no. for chassis mount version.

CONFIGURATION	MAX. OUTPUT POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT VOLTAGE	PFC	MODEL NUMBER
A A A	650W	12VDC	54.2A	85-264VAC	YES	TPCM3000
	700W	24VDC	29.2A	85-264VAC	YES	TPCM5000
Standard Rear Input/Output	800W	48VDC	16.7A	85-264VAC	YES	TPCM7000
	480W	12VDC	40.0A	85-264VAC	YES	TPCM3000E
《 图》 图 1	525W	24VDC	21.9A	85-264VAC	YES	TPCM5000E
Optional Front IEC Input	600W	48VDC	12.5A	85-264VAC	YES	TPCM7000E

 $\textbf{NOTE:} \ \text{The table does not show the independent 5V, 1/4A standby output which is standard on all models.}$

OPTIONS

CODE	OPTION	OUTPUT DERATING
R	Reverse Air Flow (Back to Front) on Standard Models	20%
R	Reverse Air Flow on "E" Suffix Models	16.6%
Z	I ² C Serial Data Bus	N/A

NOTE: Add Option Code as suffix to model no. See picture of Option E on next page. Contact factory on availability of Option Z.

SAFETY STANDARDS

- UL60950
- CSA22.2, No. 60950
- EN60950

RACK MOUNT ORDERING GUIDE:

For 1U, 19-inch rack holding three TPCM models, order TPCMR1U3.

See separate data sheet for racks.

www.unipowercorp.com or www.powercassette.com

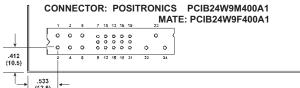


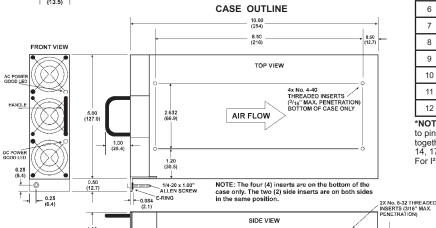
SPECIFICATIONS, PowerCassette® PCM & TPCM SERIES FRONT ENDS

Typical at Nominal 115/230VAC Line, Full Load and 25°C Unless Otherwise Noted.

OUTPUT SPECIFICATIONS

Total Output Power, Continuous, Max	
Voltage Adjustment Range, Min	
Total Regulation ¹ ,	
Total Regulation, Standby Supply	5.0%
Ripple & Noise, Pk-Pk ²	
Holdup Time	20mS
Dynamic Response 3	300µS
Temperature Coefficient	±0.02%/°C
Minimum Load	0A
Overload Protection	
Overvoltage Protection	Latched Shutdown
Remote Sensel	Jp to 0.25V Per Wire
Current Share ±1	0% Full Load Rating
Standby Output	+5V, 250mA
DC Power Good Signal	Logic Low
AC Power Fail Signal	
Global Inhibit	
Enable	Logic Low
Thermal Warning	
INPUT SPECIFICATIONS	
Input Voltage Range	85-264VAC
Power Factor	0.99
Input Frequency	47-63Hz
Inrush Current Limiting	
Input EMI Filter	EN55022 Curve B
FCC20	0780 pt. 15J Curve B
Harmonic Distortion	
Input Immunity, Conducted	
Fast Transients, Line-Line ±2kV (E	N61000-4-4 Level 3)
Surges, Line-Line±2kV (E	
Surges, Line-Ground±4kV (E	
Input Protection	





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

NOTE: The TPCM Model is shown. The PCM version does not have handle or mounting bracket with bolt.

GENERAL SPECIFICATIONS

Efficiency ⁴	80-87% at Full Load
Switching Frequency, PFC Converter	48-110kHz
Output Converte	er 275kHz Nominal
Isolation, Class I, min.⁵	
Input-Output	3000VAC
Input-Ground	1500VAC
Output-Ground	50VDC
MTBF (Bellcore)	200,000 Hours
Safety Standards EN60950, UL	1950, CSA22,2 No.950

ENVIRONMENTAL SPECIFICATIONS

0°C to 70°C Ambient
2.5% / °C, 50°C to 70°C
40°C to +85°C
Integral Ball Bearing Fans

PHYSICAL SPECIFICATIONS

Case Material	Aluminum
Dimensions, Inches(mm)	1.6 H x 5.0 W x 10.0 D
	(40.6 x 127 x 254)
Weight	2.9 lbs. (1.3 kg.)

NOTES: 1. 2.

.80 (20.3)

- No load to full load, including line regulation and load regulation. 20MHz bandwidth. Measure with 0.1µF ceramic and 10µF tantalum capacitors in parallel across the output. <4% deviation recovering to within 1% for 25% load change. Typical efficiency is at low end of range for 12V output and at high end of range for 48V output. Input-output isolation figure is for isolation components only. 100% production Hipot tested.

MATING INTERFACE BOARD

Order Kit Number 009-3850-0000

	PIN CONNECTIONS				
PIN	FUNCTION	PIN	FUNCTION		
1	+V Out*	13	Module Present		
2	+V Out*	14	DC Power Good/ADD GA1*		
3	+V Out*	15	AC Power Fail		
4	V Return*	16	V Trim		
5	V Return*	17	Overtemp. Warning/ADD GA0*		
6	V Return*	18	Current Share		
7	Enable*	19	Current Monitor/ADD GA2*		
8	+ Sense	20	+5V Standby		
9	- Sense	21	Standby Return		
10	Inhibit	22	Chassis Ground		
11	Spare/SDA*	23	AC Line		
12	Spare/SCL*	24	AC Neutral		

*NOTES: For unit to operate, pin 7 must be at logic LO or shorted to pin 9. For proper operation the following pins must be connected together: All V Out pins (1-3); all V Return pins (4-6). Pins 11, 12, 14, 17 & 19 function as I²C outputs when that option is present. For I²C operation pin 21 must be connected to pin 9.

IEC Input Version (Option E)

