



FRONT-ENDS AND RECTIFIERS

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Bluestreak™ Series HIGH EFFICIENCY FRONT-ENDS & RECTIFIERS

1U High, Up to 23W/Cubic Inch

FEATURES

- Up to 92% Efficiency
- -40°C to +70°C Operation
- Wide Range AC Input
- Up to 2000W Output
- >0.98 Power Factor
- Output Voltages: 12 to 54.4VDC
- Power Density to 23W/Cu. Inch
- Hot Swappable
- Integral Active Output ORing Circuit
- Class B EMI Filter
- LED Indicators
- PMBus Serial Communications
- Variable Speed Cooling Fans
- 19- or 23-Inch Rack Mounting



1.6" x 4" x 13.7"
(40.6mm x 102.0mm x 347.9mm)



1U High Shelf

TWO YEAR WARRANTY



2006/95/EC

SAFETY STANDARDS

UL60950-1
CSA22.2 60950-1
EN60950-1

FRONT-END / RECTIFIER MODULES					
OUTPUT VOLTAGE	OUTPUT CURRENT	MAX. POWER	INPUT RANGE ¹	INPUT CURRENT ²	MODEL NO.
54.4VDC	37.0A 28.0A	2000W 1500W	180-264VAC 85-132VAC	10A 14A	RBSR48/37
54.4VDC	28.0A	1500W	85-264VAC	14A/7.5A	RBSR48/28
48.0VDC	42.0A 31.0A	2000W 1500W	180-264VAC 85-132VAC	10A 14A	TBSR7000
27.2VDC	60.0A 54.0A	1632W 1469W	180-264VAC 85-132VAC	8.2A 13.5A	RBSR24/60
27.2VDC	54.0A	1469W	85-264VAC	13.5A/7.6A	RBSR24/54
24.0VDC	60A	1440W	85-264VAC	13.3A/6.5A	TBSR5000
13.6VDC	100.0A	1360W	85-264VAC	13.1A/6.4A	RBSR12/100
12.0VDC	100.0A	1200W	85-264VAC	12A/5.8A	TBSR3000

NOTE:

1. Models showing two output power levels with dual AC input ranges will operate over the full range from 85VAC to 264VAC, automatically limiting output current according to the actual input voltage range applied.
2. Input currents shown are nominal values at 120VAC/240VAC as appropriate.
3. The table does not show 5V/1.8A & 12V/.8A (9.6W Combined) standby outputs, standard on all units.

4 BAY, 19-INCH SHELVES				
MAX. NO. MODULES	MAX. POWER	MAX. CURRENT	OUTPUT INPUT	MODEL NO.
4	8,000W	400A	Single Output Bus IEC60320-C20 AC Input	TSGR1U4A
4	8,000W	400A	Single Output Bus Terminal Block AC Input	TSGR1U4B
4	8,000W	200A/200A	Dual Output Bus IEC60320-C20 AC Input	TSGR1U4C
4	8,000W	200A/200A	Dual Output Bus Terminal Block AC Input	TBSR1U4D

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Sigma Series™ Series

ULTRA COMPACT FRONT-ENDS & RECTIFIERS

1U by 2U Modules, 4 Bay Shelves

FEATURES

- -20°C to +70°C Operation
- Dual A/B AC Inputs
- Dual A/B DC Outputs
- Wide Range Input: 85-264VAC
- Up to 650W Module Output
- Up to 2600W Shelf Output
- 0.99 Power Factor
- Output Voltage: 12 to 54.4VDC
- 80-87% Efficiency
- Power Density to 11.24W/Cu. Inch
- Hot Swappable
- Integral Active Output ORing Circuit
- Class B EMI Filter
- LED Indicator
- I²C Serial Data Option
- 19- or 23-Inch Rack Mounting

Sigma Series

1.6" x 3.3" x 11.0"
(40.6mm x 84mm x 279mm)



1U High Shelf

FRONT-END / RECTIFIER MODULES

OUTPUT VOLTAGE	OUTPUT CURRENT	MAX. POWER	INPUT RANGE	MODEL NO.
54.4V	12.0A	653W	85-264	RSJ48/12
	10.1A	550W	85-264	RSG48/10
	7.4A	400W	85-264	RSF48/7
48V	13.5A	650W	85-264	TSJ7000
	11.5A	550W	85-264	TSG7000
	8.3A	400W	85-264	TSF7000
27.2V	18.4A	500W	85-264	RSG24/18
	12.9A	350W	85-264	RSF24/13
24V	20.8A	500W	85-264	TSG5000
	14.7A	350W	85-264	TSF5000
13.6V	33.0A	450W	85-264	RSG12/33
	22.1A	350W	85-264	RSF12/22
12V	37.5A	450W	85-264	TSG3000 ²
	25.0A	350W	85-264	TSF3000

NOTE:

1. The table does not show 5V, 250mA standby output, standard on all models.
2. TSG3000 Available with "QUIET FAN" option (Model TSG3000-S), De-rated to 300W.

TWO YEAR WARRANTY



2006/95/EC

SAFETY STANDARDS

UL60950-1
CSA22.2 60950-1
EN60950-1

OPTION	
CODE	DESCRIPTION
Z ²	I ² C Serial Data Bus

NOTE:

1. Add option Code as suffix to model number.
2. Add when using with DCSC1000 Controller or when I²C is required

4 BAY, 19-INCH SHELVES

MAX. NO. MODULES	MAX. POWER	MAX. CURRENT	OUTPUT DC BUS	AC INPUTS	MODEL NO.
4	2,600W	150A	SINGLE	DUAL A/B	TSGR1U4A
4	2,600W	150A	DUAL A/B	DUAL A/B	TSGR1U4D

Radian Series COMPACT FRONT-ENDS & RECTIFIERS

1U High, 10 Inch Deep Modules

FEATURES

- -20°C to +70°C Operation
- Wide Range AC Input
- Up to 1360W Module Output
- Up to 4080W Shelf Output
- 0.99 Power Factor
- Output Voltages: 12 to 54.4VDC
- 80-87% Efficiency
- Power Density to 17W/Cu. Inch
- Hot Swappable
- Integral Active Output ORing Circuit
- Class B EMI Filter
- LED Indicators
- I²C Serial Data Option
- 19- or 23-Inch Rack Mounting



RPCM, TPCM,
RPCP, TPCP, RPCQ



RPCG, TPCG

1.6" x 5" x 10"
(40.6mm x 127.0mm x 254mm)



1U High Shelf

TWO YEAR WARRANTY



2006/95/EC

SAFETY STANDARDS

UL60950-1
CSA22.2 60950-1
EN60950-1

OPTION	
CODE	DESCRIPTION
Z ²	I ² C Serial Data Bus

NOTE:

- Add option Code as suffix to model number.
- Add when using with DCSC1000 Controller or when I²C is required

FRONT-END / RECTIFIER MODULES

OUTPUT VOLTAGE	OUTPUT CURRENT	MAX. POWER	INPUT RANGE	MODEL NO.
54.4V	25.0A	1360W	180-264	RPCQ48/25
	22.0A	1200W	90-264	RPCP48/22
	15.0A	800W	85-264	RPCM48/15
	8.0A	435W	85-264	RPCG48/8
48V	25.0A	1200W	85-264	TPCP7000
	16.7A	800W	85-264	TPCM7000
	9.4A	450W	85-264	TPCG7000
27.2V	33.0A	900W	85-264	RPCP24/33
	25.0A	690W	85-264	RPCM24/25
	15.0A	400W	85-264	RPCG24/15
24V	41.7A	1000W	85-264	TPCP5000
	29.2A	700W	85-264	TPCM5000
	16.7A	400W	85-264	TPCG5000
13.6V	50.0A	680W	85-264	RPCP12/50
	45.0A	600W	85-264	RPCM12/45
	27.0A	370W	85-264	RPCG12/27
12V	66.7A	800W	85-264	TPCP3000
	54.2A	650W	85-264	TPCM3000
	30.8A	370W	85-264	TPCG3000

NOTE:

- The table does not show 5V, 250mA standby output, standard on all models.

3 BAY, 19-INCH SHELVES

RECTIFIER MODULES	HEIGHT	DEPTH	AC CONN.	MODEL NO.
RPCG, TPCG RPCM, TPCM	1U (1.6")	11.56"	C14	TPCMR1U3
RPCP, TPCP RPCQ	1U (1.6")	12.66" 13.15" 14.88"	Term. Blk. C20 C20	TPCPR1U3A TPCPR1U3B TPCPR1U3C

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Powercassette® Series DC INPUT FRONT-ENDS

24 & 48VDC Input to 1200 Watts

FEATURES

- Isolated 5V, ¼A Standby Output
- Hot-Swap Operation
- Remote Output Adjustment
- Up to 3600 Watts System Output
- Wide Range Input
- Integral LED Status Indicators
- -20°C to +70°C Operating
- I²C Serial Data Bus Option
- 15Watts/Cubic Inch Power Density
- Single Hot-Swap Connector
- Staged Pin Engagement
- ORing Diode on Output
- 1U, 19" Rack Holds 3 Units
- 19- or 23-Inch Rack Mounting
- Active Current Sharing
- Optimized Thermal Management
- No Minimum Load
- Control & Monitoring Features

TWO YEAR WARRANTY



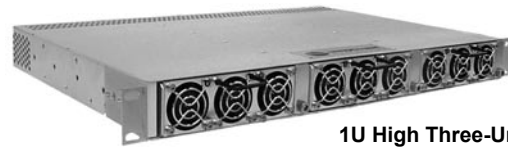
2006/95/EC

SAFETY STANDARDS

UL60950-1
CSA22.2 60950-1
EN60950-1

TPCMQ Model

1.6" x 5" x 10.0"
(40.6mm x 127mm x 254mm)



1U High Three-Unit Rack/Shelf

STANDARD MODULES					
	OUTPUT VOLTAGE	OUTPUT CURRENT	MAX. POWER	INPUT RANGE	MODEL NO.
48VDC INPUT	12.0VDC	65.0A	780W	40-60VDC	TPCMQ48-12/65
	12.0VDC	54.2A	650W	40-60VDC	TPCMQ48-12/54
	13.6VDC	47.8A	650W	40-60VDC	TPCMQ48-13/48
	24.0VDC	35.0A	840W	40-60VDC	TPCMQ48-24/35
	24.0VDC	29.2A	700W	40-60VDC	TPCMQ48-24/29
	27.0VDC	25.7A	700W	40-60VDC	TPCMQ48-27/26
24VDC INPUT	54.4VDC	22.0A	1200W	20-30VDC	TPCPQ24-54/22
	48.0VDC	25.0A	1200W	20-30VDC	TPCPQ24-48/25
	54.4VDC	18.4A	1000W	20-30VDC	TPCMQ24-54/18
	48.0VDC	20.8A	1000W	20-30VDC	TPCMQ24-48/20

NOTE:

1. The table does not show the independent 5V, ¼A standby output which is standard on all models.

OPTION		
CODE¹	DESCRIPTION	OUTPUT DERATING
R³	Reverse Air Flow (Back to Front)	20%
Z²	I²C Serial Data Bus	N/A

NOTE:

1. Add option Code as suffix to model number.
2. Add when using with DSC1000 controller or if I²C is required
3. 48VDC Models only.

19-INCH SHELVES				
	MODEL	HEIGHT	WIDTH	NO. OF MODULES
48VDC	TPCMQR1U3-48	1.72" (43.7mm)	19" (483mm)	3
24VDC	TPCMQR1U3-24	1.72" (43.7mm)	19" (483mm)	3

NOTE:

1. System rack and hot-swap modules must be ordered separately. Brackets are available for mounting in 19-inch rack/shelf in 23 inches.
2. Order no. 775-1451-0000 (Set of Two).

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FRONT-ENDS AND RECTIFIERS

SOLVING YOUR POWER NEEDS WITH:

- ◆ **FRONT-ENDS**
- ◆ **RECTIFIERS**
- ◆ **SINGLE OUTPUT POWER SUPPLIES**
- ◆ **MULTI OUTPUT POWER SUPPLIES**
- ◆ **OPEN FRAME POWER SUPPLIES**
- ◆ **HOT-SWAP POWER SUPPLIES**
- ◆ **INVERTERS**
- ◆ **POWER DISTRIBUTION**
- ◆ **DC POWER SYSTEMS**



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