

DESCRIPTION

BLUEstreak is Unipower Corporation's new generation high density hot-swappable, modular Front-Ends and Rectifiers producing up to 2000 watts output power. These 1RU high power system racks hold up to four **BLUEstreak** power modules producing 8000W output power up to a maximum 400A.

The four available standard models offer combinations of single 400A output bus or 2 x 200A output buses in conjunction with individual AC inputs to each power module via either screw terminal blocks or IEC60320-C20 inlet sockets.

Offering 19" or 23" mounting capability multiple shelves can be stacked to provide expanded total system capability up to 32kW or 2000A.

FEATURES

- ◆ 1RU High (1.72")
- ◆ Holds up to 4 Power Modules
- ◆ Up to 8000W / 400A
- ◆ Single & Dual Bus Configurations
- ◆ Individual Module AC Input Feeds
- ◆ IEC60320-C20 or Terminal Block Input
- ◆ High Efficiency
- ◆ Front-End & Rectifier Applications
- ◆ Hot Swappable Modules
- ◆ 19" or 23" Rack Mount
- ◆ A+B Inputs & A+B Outputs
- ◆ Stackable for System Expansion
- ◆ PMBus Serial Interface
- ◆ Cable Lug / BusBar Output

TWO-YEAR WARRANTY

SAFETY STANDARDS

UL60950-1
 CSA22.2, No. 60950-1
 EN60950-1



4-BAY 19" SHELF SYSTEM ORDERING GUIDE

MAX. POWER	DESCRIPTION	MAX. CURRENT	MODEL NO.
8000W	Single Output Bus IEC60320-C20 AC Input	400A	TBSR1U4A
8000W	Single Output Bus Terminal Block AC Input	400A	TBSR1U4B
8000W	Dual Output Bus IEC60320-C20 AC Input	200A/200A	TBSR1U4C
8000W	Dual Output Bus Terminal Block AC Input	200A/200A	TBSR1U4D

FRONT-END / RECTIFIER MODULES

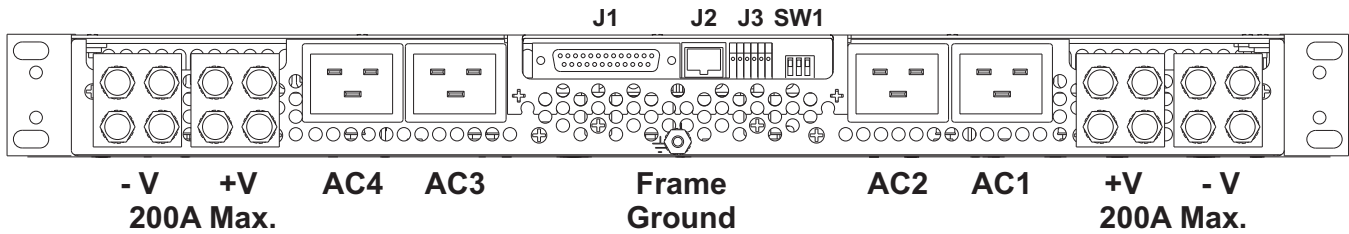
MAX. POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	VAC INPUT RANGE	MODEL NO.
2000W 1500W	54.4VDC	37.0A 28.0A	180-264 85-264	RBSR48/37
2000W 1500W	48.0VDC	42.0A 31.0A	180-264 85-264	TBSR7000
1632W 1469W	27.2VDC	60.0A 54.0A	180-264 85-264	RBSR24/60 *
1440W	24.0VDC	60A	85-264	TBSR5000 *
1360W	13.6VDC	100.0A	85-264	RBSR12/100
1200W	12.0VDC	100.0A	85-264	TBSR3000

* AVAILABLE 2nd HALF 2009

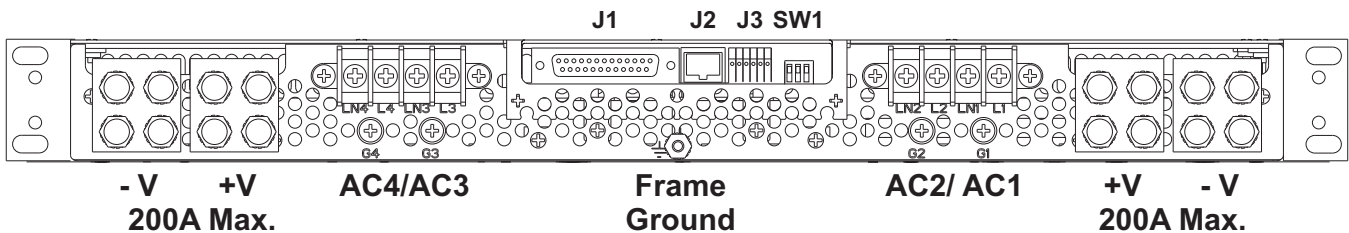
For detailed module specifications see separate datasheet.

REAR PANEL DETAIL

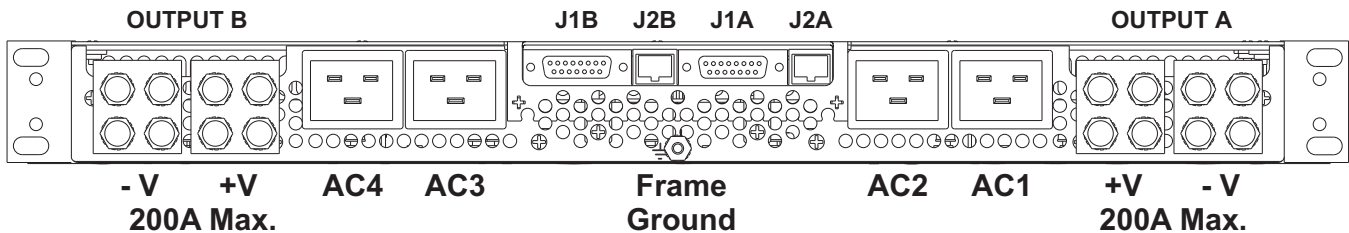
TBSR1U4A - 400A Single Bus Output / IEC60320-C20 Input



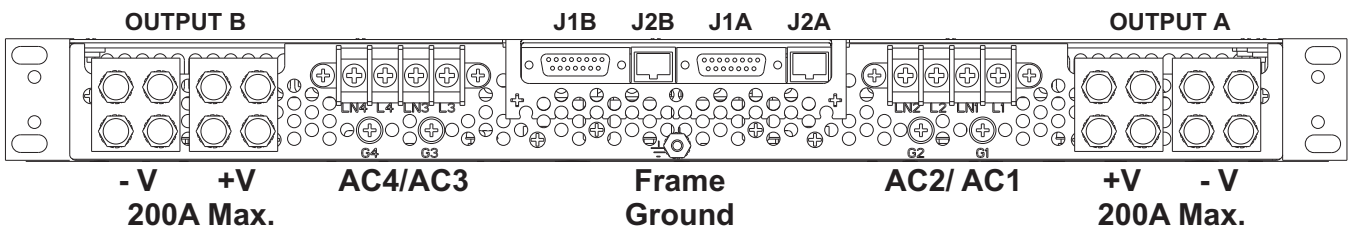
TBSR1U4B - 400A Single Bus Output / Screw Terminal Input



TBSR1U4C - 200A Dual Bus Output / IEC60320-C20 Input



TBSR1U4D - 200A Dual Bus Output / Screw Terminal Input



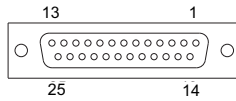
NOTES:

- Single bus shelves are provided with two pairs of output bus bars that are connected together internally. The maximum current capacity of each pair is 200A.
- J1 is a 25-way D-Type socket. J1A and J1B are 15-way D-Type sockets.
- J2 is an RJ25 socket.
- J3 is a spring-clamp terminal block accepting wire size 20-26AWG.
- Dual bus shelves are not normally intended for parallel operation and have fixed PMBus addresses. Consult factory for parallel operation and/or alternate PMBus addressing.
- Various line cords are available for use with TBSR1U4A and TBSR1U4C. Consult sales for availability.
- Protective covers are provided as standard for the DC output terminals and the AC terminal block inputs.

CONNECTION DETAILS

TBSR1U4A & TBSR1U4B

SIGNAL CONNECTOR - J1			
PIN	FUNCTION	PIN	FUNCTION
1	Control	14	ACOK - 1
2	12V Standby ^{2,3}	15	DCOK - 1
3	TEMPOK - 1	16	ACOK - 2
4	TEMPOK - 2	17	DCOK - 2
5	TEMPOK - 3	18	ACOK - 3
6	TEMPOK - 4	19	DCOK - 3
7	Remote Adjust ⁴ - 4	20	ACOK - 4
8	5V Standby ^{1,3}	21	DCOK - 4
9	MODULE PRESENT - 1	22	Sense -Ve
10	MODULE PRESENT - 2	23	Standby Return
11	MODULE PRESENT - 3	24	Remote Adjust ⁴ - 1
12	Remote Adjust ⁴ - 2	25	Remote Adjust ⁴ - 3
13	MODULE PRESENT - 4		



25-way D-type Socket

SIGNAL CONNECTOR - J2			
PIN	FUNCTION	PIN	FUNCTION
1	SMBALERT	4	5V Standby
2	SDA	5	SCL
3	Standby Return	6	Control



RJ25 Socket

SIGNAL CONNECTOR - J3			
PIN	FUNCTION	PIN	FUNCTION
1	Sense +Ve	4	Sense +Ve
2	Sense -Ve	5	Sense -Ve
3	Current Share	6	Current Share



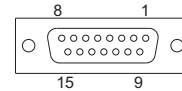
Spring-Clamp Terminal Block

ADDRESS SWITCH - SW1	
SW	FUNCTION
1	GA2
2	GA3
3	GA4



TBSR1U4C & TBSR1U4D

SIGNAL CONNECTORS - J1A & J1B			
J1A		J1B	
PIN	FUNCTION	PIN	FUNCTION
1	Control - A	1	Control - B
2	12V Standby ^{2,3} - A	2	12V Standby ^{2,3} - B
3	TEMPOK - 2	3	TEMPOK - 4
4	TEMPOK - 1	4	TEMPOK - 3
5	5V Standby ^{1,3} - A	5	5V Standby ^{1,3} - B
6	Remote Adjust ⁴ - 2	6	Remote Adjust ⁴ - 2
7	Remote Adjust ⁴ - 1	7	Remote Adjust ⁴ - 1
8	ACOK - 2	8	ACOK - 4
9	DCOK - 2	9	DCOK - 4
10	ACOK - 1	10	ACOK - 3
11	DCOK - 1	11	DCOK - 3
12	Sense -Ve - A	12	Sense -Ve - B
13	Standby Return - A	13	Standby Return - B
14	Sense +Ve ⁴ - A	14	Sense +Ve ⁴ - B
15	Current Share ⁴ - A	15	Current Share ⁴ - B



15-way D-type Sockets x 2

SIGNAL CONNECTORS - J2A & J2B			
J2A		J2B	
PIN	FUNCTION	PIN	FUNCTION
1	SMBALERT - A	1	SMBALERT - B
2	SDA - A	2	SDA - B
3	Standby Return - A	3	Standby Return - B
4	5V Standby ^{1,3} - A	4	5V Standby ^{1,3} - B
5	SCL - A	5	SCL - B
6	Control - A	6	Control - B

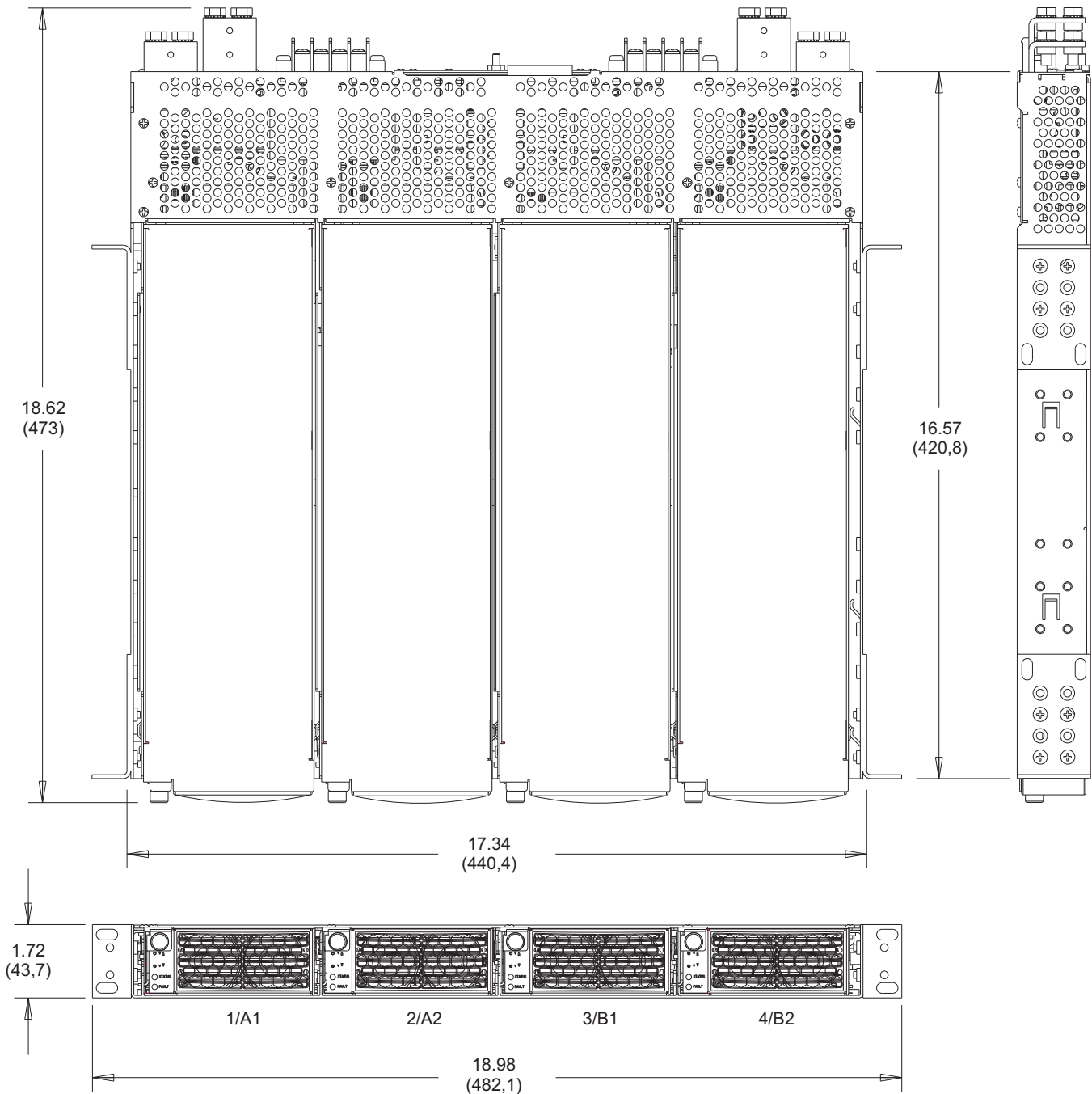


RJ25 Sockets x 2

NOTES:

1. Current rating of +5V standby is 1.8A per module.
2. Current rating of +12V standby is 0.8A per module.
3. Total standby consumption limited to 9.6W per module.
Total combined standby current must not exceed 3A per bus.
4. Referenced to -Ve Sense.

DIMENSIONS



ALL DIMENSIONS IN INCHES (mm).

All specifications subject to change without notice.

tbsr1u4-ds-revC-10-20-09.indd