



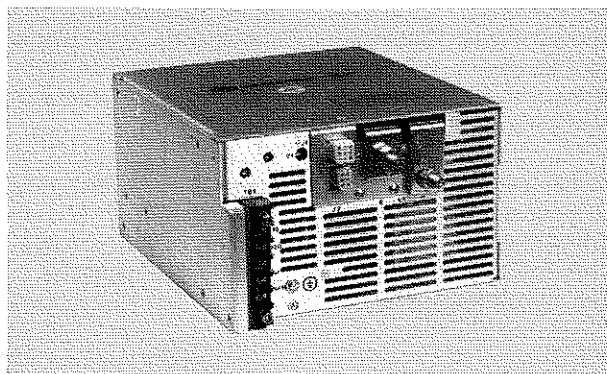
UNIPOWER
EUROPE LIMITED

**WORLD CLASS
POWER
SOLUTIONS**

FOREDOWN DRIVE, PORTSLADE, BRIGHTON,
EAST SUSSEX, BN41 2BB, ENGLAND.
TEL: ++44(0)273 420196
FAX: ++44(0)273 417140

J SERIES: INDUSTRY STANDARD

Single Output, 500-1200 Watts



KEY FEATURES

- Industry Standard 5" x 8" x 11" Case
- Power Density to 3.3 W/Cubic Inch
- Jumper Selectable 115/230VAC
- Redundant N + 1 Operation
- No Load Operation

OPTIONS

- DC "OK" Signal
- Current Share & Current Monitor
- Reverse Air Flow

OTHER FEATURES

- Outputs from 2VDC to 48VDC
- Full Output Power to 50°C
- Current Sharing Parallel Operation
- Efficiency to 75%
- MTBF to 85,000 Hours
- Unique Integral Thermal Design
- Rear Mounted DC Ball Bearing Fan
- Soft Start
- Electronic Inrush Current Limiting
- Tight Regulation, Low Noise
- Overload and Overvoltage Protection
- Thermal Warning and Protection
- EMI Input Filter
- Remote Sense, Inhibit, Margin
- AC Power Fail Signal
- 24 Hour Power-Cycle Burn-in at 50°C
- Full Test Data with each Unit
- Safety Agency Approvals
- Two Year Warranty

SPECIFICATIONS

Typical at Nominal Line, Full Load and 25°C unless otherwise noted.

OUTPUT SPECIFICATIONS

Voltage Adjustment.....	>±5%
Line Regulation ¹	<0.2% or 10mV
Load Regulation ²	<0.2% or 10mV
Cross Regulation ²	<0.2% or 10mV
Ripple & Noise ³	<1.0% or 50mV
Hold-Up Time.....	>20mS
Dynamic Response ⁴	<200µS
Temperature Coefficient.....	<±0.02% / 1°C
Remote Sense.....	up to 0.25V per wire
Short Circuit Protection.....	Power shutdown set at ~ 150% FL, auto recovery
Overvoltage Protection.....	Power shutdown set at 120% - 135% maximum

INPUT SPECIFICATIONS

Input Voltage.....	90-132V or 180-264V AC single phase, user selectable
Input Frequency.....	47-63Hz
Inrush Limiting.....	Electronic, 30A peak - 500W 40A peak - 800W 75A peak - 1000W & 1200W
Input EMI Filter, Conducted.....	EN55022 curve A FCC20780 pt. 15J curve A
Input Immunity, Conducted.....	EN55082-1
Input Protection.....	Internal fuse

GENERAL SPECIFICATIONS

Efficiency.....	>70% at full load
Switching frequency.....	20KHz nominal
MTBF ⁵	to 85,000 hours
Isolation, class I ⁶	>3000VAC input - output >1500VAC input - ground >500VDC output - ground
Safety Standards.....	IEC380, UL478, CSA22.2-220

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature.....	0°C to 71°C ambient
Derating 50°C to 71°C.....	2.4% / °C
Storage Temperature.....	-40°C to +85°C
Cooling.....	Internal DC Ball Bearing Fan
Vibration.....	Per MIL-STD 810D, Method 514-3, Cat-I, Proc I
Shock.....	Per MIL-STD 810D, Method 516-3, Proc II, IV, VI

PHYSICAL SPECIFICATIONS

Case Material.....	Aluminium
Dimensions.....	See Case Drawings
Weight.....	500W, 800W - 5.4Kg. 1000W, 1200W - 6.8Kg.



IEC380



UL478



CSA22.2-220

NOTES:

1. Whichever figure is greater. Measured over full AC input range.
2. Whichever figure is greater. Measured NL-50%FL or 50%FL-FL with remote sense connected.
3. Whichever figure is greater. DC - 20MHz differential measurement.
4. <4% deviation recovering to within 1% for 25% load change at 75% rated load.
5. Full load @ 25°C per MIL-HDBK 217E.
6. Input - output isolation figure is for isolation components only.

All specifications subject to change without notice.



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STANDARD MODELS

Max Watts	MODEL NUMBER	Output	Case
500W	JG1000	2V 160.0A	50
	JG2000	5V 100.0A	
	JG3000	12V 42.0A	
	JG4000	15V 33.0A	
	JG5000	24V 21.0A	
	JG6000	28V 18.0A	
	JG7000	48V 10.0A	
800W	JM1000	2V 180.0A	
	JM2000	5V 160.0A	
	JM3000	12V 67.0A	
	JM4000	15V 54.0A	
	JM5000	24V 34.0A	
	JM6000	28V 29.0A	
	JM7000	48V 17.0A	
1000W	JN1000	2V 210.0A	
	JN2000	5V 200.0A	
	JN3000	12V 83.0A	
	JN4000	15V 66.0A	
	JN5000	24V 42.0A	
	JN6000	28V 36.0A	
	JN7000	48V 21.0A	
1200W	JP1000	2V 240.0A	
	JP2000	5V 240.0A	
	JP3000	12V 100.0A	
	JP4000	15V 80.0A	
	JP5000	24V 50.0A	
	JP6000	28V 42.0A	
	JP7000	48V 25.0A	

For special output voltages consult factory.

OPTIONS	
D	DC "OK" Signal
F	Current Share & Current Monitor
R	Reverse Air Flow (Consult Factory)

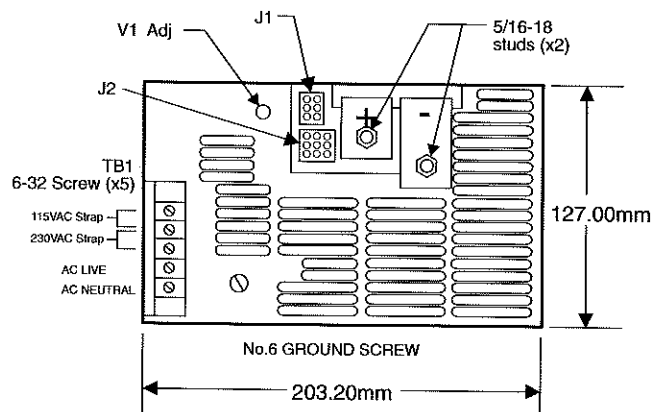
NOTES

- Maximum continuous output power must not exceed the maximum power rating.

MATING CONNECTOR	
J1 mating plug: Molex 03-06-2092	Male pins: Molex 02-06-2103
J2 mating plug: Molex 03-06-2061	

J1 - CONNECTION DETAILS	
1	Current Share
2	OVP Actuate
3	DC 'OK'
4	N/C
5	N/C
6	N/C
7	Current Monitor
8	- Sense
9	N/C

TB1 - CONNECTION DETAILS	
1	AC NEUTRAL
2	AC LIVE
3	Strap to terminal 4 for 230VAC
4	AC select strap common
5	Strap to terminal 4 for 115VAC



FRONT VIEW

