

TD RSP-1URK-BBU SERIES 1000 WATT DC-UPS BATTERY BACK-UP POWER SUPPLY 1U LOW RACK HEIGHT

APPLICATIONS

The TD RSP-1URK-BBU Series of Battery back-up Power Supplies satisfies a growing market where critical continuous power is required.

Designed as a complete system with power supplies and batteries it is ideal for medical, industrial and critical process control applications where no down time can be tolerated.



STANDARD FEATURES

- Universal AC Input/Full range
- Active PFC for EN61000-3-2,-3
- Built In Batteries
- Current Share Function
- DC Good Signals
- Remote on/off & Remote Sense Functions
- Low Voltage Battery Disconnect

AVAILABLE OPTIONS

- Parallel Operation
- ORing Diode for Redundant Operation
- Digital Meters
- Ruggedized for shock & vibration
- 400Hz Operation
- Conformal Coating

SAFETY AND EMISSIONS

- Designed to meet UL/cUL60950-1
- Designed to meet TUV EN60950-1
- Designed to meet CB Report (IEC 60950-1)
- Designed to meet CE Mark (LVD)
- Designed to meet EN55022 Class B (CISPR 22 B)

SPECIFICATIONS

INPUT SPECIFICATIONS:

Input: Universal AC Input Range 90-264VAC
Input Frequency: 47-63Hz (400Hz Optional)
Inrush Current: 25A max at 115VAC/40A at 230 VAC (cold start)
Input Current: 12 A max @ 115VAC 6A max @ 230VAC
Efficiency: 83-90% typical (depending on output model)
Hold-up time: 16ms at full load (minimum)
Leakage Current: <2.0mA maximum @ 240 VAC
Harmonics: EN 61000-3-2, -3 Class D Compliant (0.99 PF Typical)

OUTPUT SPECIFICATIONS

Adjustment Range: $\pm 10\%$ (minimum)
Minimum Load: none
Regulation: Line $\pm 0.5\%$ Load $\pm 0.5\%$
Ripple/Noise: 150mV peak to peak maximum (20 MHz)
Set Point Accuracy: $\pm 1\%$ (except 5V $\pm 2\%$) (maximum)
Output voltage adj: $\pm 10\%$ minimum
Overcurrent Protection: 105-125% automatic recovery Constant Current
Overvoltage Protection: 115 -140% of V1 nominal
Overtemperature Protection: Heatsink Temp. 90°C $\pm 5^\circ\text{C}$ Auto Recovery

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature: -20°C to +50°C. Derate to 50% at +70°C
Storage Temperature: -40°C to + 85°C max 95 % Relative Humidity
Cooling: Internal ball bearing DC fan
Humidity: 20-90% RH non condensing
Vibration: 10-500Hz, 2G 10min/1cycle for 60 min (3 axes)
Shock: 20G Peak Acceleration
Weight: Approx: 22 LBS
Size: 1.75" x 19" x 13.5"



ISO 9001
File: A5269

MODEL SELECTION

600 WATT POWER SUPPLY		800 WATT POWER SUPPLY		1000 WATT POWER SUPPLY	
MODEL	OUTPUT	MODEL	OUTPUT	MODEL	OUTPUT
TDRSP-1URK-BBU-12-50	12V (13.5V) @ 50A	TDRSP-1URK-BBU-24-66	12V (27.6V) @ 66A		
TDRSP-1URK-BBU-24-25	24V (27.6V) @ 25A	TDRSP-1URK-BBU-24-33	24V (27.6V) @ 33A	TCP-RK-BBU-24-41	24V (27.6V) @ 41A
TDRSP-1URK-BBU-48-12	48V (54V) @ 12A	TDRSP-1URK-BBU-48-16	48V (54V) @ 16A	TCP-RK-BBU-48-20	48V (54V) @ 20A
600 WATTS BACK-UP FOR 11 MIN		800 WATTS BACK-UP FOR 8 MIN		1000 WATTS BACK-UP FOR 5 MIN	

NOTE: SEPARATE POWER SUPPLY RACKS AND DRAWS
ARE AVAILABLE FOR INCREASED POWER LEVELS AND BACK-UP TIMES
MINIMUM QUANTITY PURCHASE REQUIRED ON MOST MODELS.
OTHER VOLTAGES & CURRENTS ARE AVAILABLE CONTACT THE FACTORY FOR DETAILS.

MECHANICAL OUTLINE

