

**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"



**NSF-ISR**

Registered  
to ISO 9001

## 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

