

Ni⁺GUARD NiMH Backup Power Systems



“The New Generation of Energy Storage Solutions Incorporating Advanced Battery Technology Coupled with Intelligent Electronics to Provide Unmatched Reliability and Performance.”

For:

- ✓ Uninterruptible Power Supply
- ✓ Emergency Lighting
- ✓ Back-Up Power Applications

Features

- Thermal-management
- Forced air ventilation
- Advanced controls
- Charger controlled
- Battery monitoring
- Over current protection
- Operational life expectancy 15+ years
- Sealed design

Benefits

- High reliability
- Reduced Total Cost of Ownership
- Higher energy & power
- Less volume & weight
- Small footprint
- Consistent performance throughout cycle life
- Minimal maintenance
- No electrolyte filling
- Safe, recyclable and environmentally friendly
- Local & remote monitoring & alarms

NiGUARD Easy to Install Building Blocks




Front View



Rear View

NiGUARD 48-10

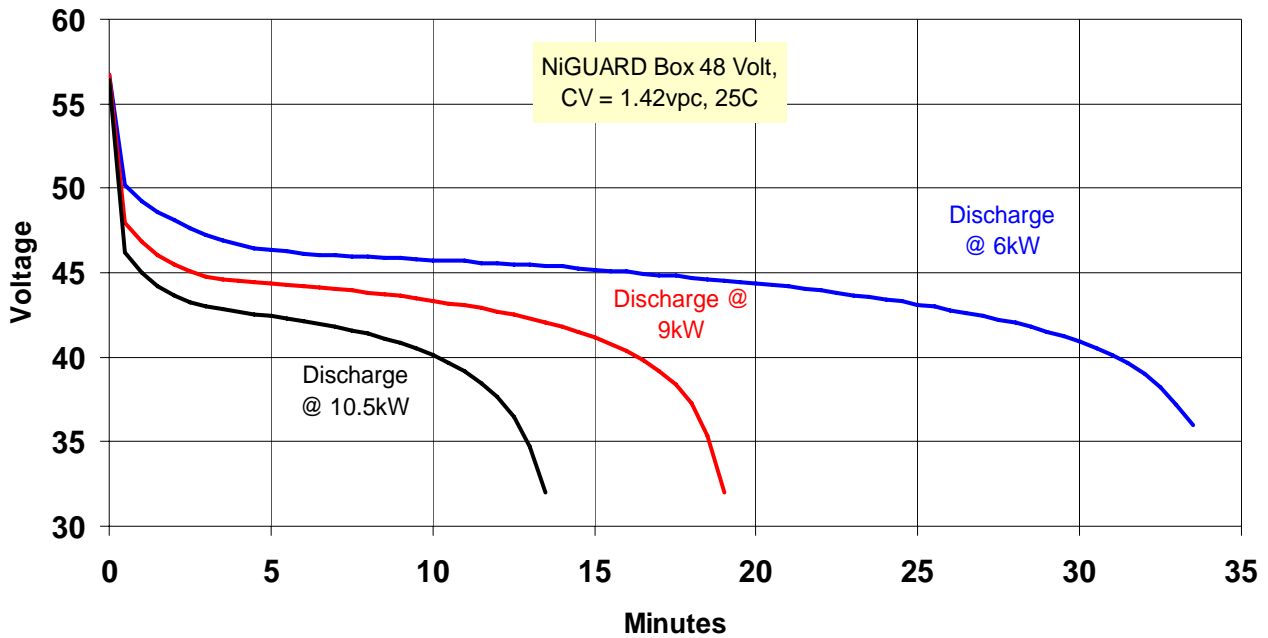
Technical Specifications

NiGUARD Model: NiGUARD 48-10	
Termination Type	¼" – 28 Female Terminal
Nominal Voltage	48 V
DC Voltage Range @ 25° C	36.0 - 58.0 V
Weight	192 lbs (86.2 kg)
Dimensions	17.00" (431.8 mm) W x 21.22" (539 mm) D x 7.563" (192 mm) H
Nominal Capacity	85 Ah @ C/3, 25° C
Cycle Life	1600 cycles @ 80% depth of discharge
Charge Current	28 A
Efficiency	> 95% coulombic efficiency from 20% to 80% SOC
Operating Temperature	-10° <-> 40° C
Operating Relative Humidity	5% to 90% non-condensing
Altitude	10,000 ft (3000 m) above sea level
Cooling	Forced Air Ventilation
Communications	High speed CAN 2.0B compliant used for centralized monitoring
Battery Type and Model	Series 9500 NiMH 12 V model 

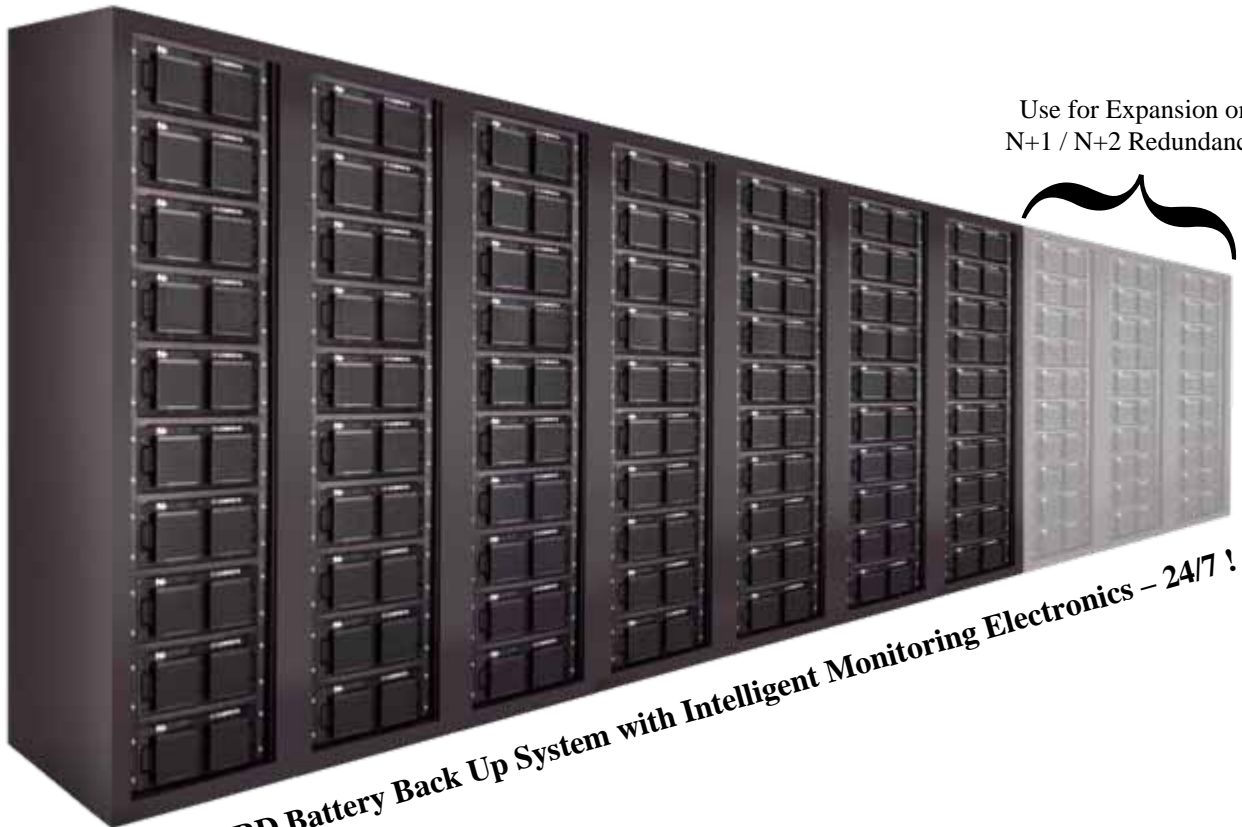
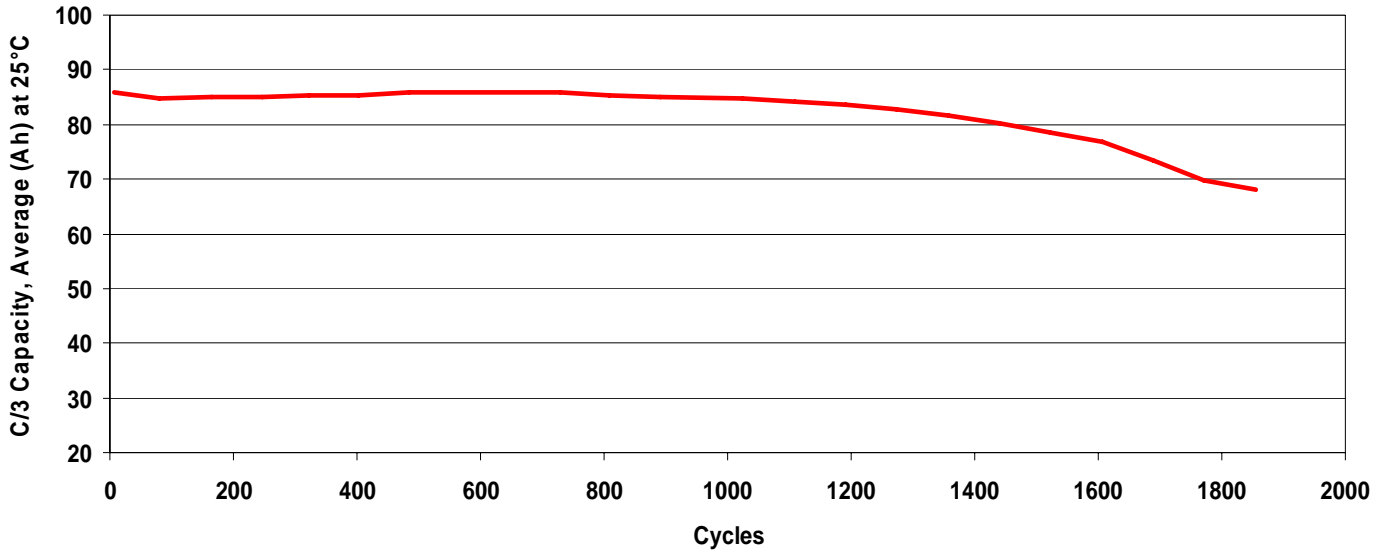
Constant Power Discharge Table

End of Discharge Voltage (V)	1.5 kW	6 kW	9 kW	10.5 kW
46	112.0 min	7.0 min	1.5 min	.5 min
44	129.0 min	21.5 min	7.0 min	1.5 min
42	137.0 min	28.0 min	13.5 min	6.5 min
40	140.0 min	31.0 min	16.0 min	10.0 min
38	--	32.5 min	17.5 min	12.0 min

Constant Power Discharge Curves



Capacity Versus 80% DOD Life Test Cycles at 25°C



Use for Expansion or
N+1 / N+2 Redundancy

NiGUARD Battery Back Up System with Intelligent Monitoring Electronics – 24/7 !



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