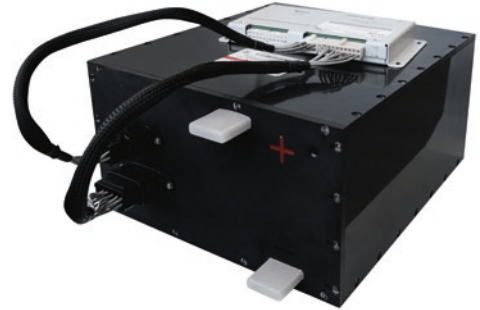


24V 70AH BATTERY MODULE

GEN4.3 NANO LITHIUM-TITANATE BATTERY MODULE

- Symmetrical, high C-rate charge/discharge capabilities
- Wide operating temperature range
- High cycle life
- Maintenance free operation
- Chemistry characteristics increase operational safety and provides higher levels of operational abuse tolerance than existing batteries



PERFORMANCE CHARACTERISTICS	NOMINAL VALUES
Voltage range ¹	17.0 V – 27.5 V
Capacity (Minimum/Typical) ²	65 Ah / 67.4 Ah
Typical discharge energy ²	1,500 Wh
Peak power (discharge/charge) ³	20.0 kW / 33.2 kW
Energy density ²	113 Wh/l
Power density (discharge/charge) ³	1,500 W/l / 2,480 W/l
Specific energy ²	52.9 Wh/kg
Specific power (discharge/charge) ³	705 W/kg / 1,167 W/kg
Internal impedance during discharge (Typical) ³	4.3 mΩ
Internal impedance during charge (Typical) ³	4.5 mΩ
Max continuous discharge or charge current	500 A
Max 10 sec Pulse discharge or charge current	900 A

¹ In lithium ion battery systems, the battery management system must enforce the voltage limits at the individual cell level.

Listed module voltages are approximate.

² 70A discharge, 25°C. Testing done using a rated capacity of 70Ah.

³ 10 sec pulse of 300A at 50% SOC, 25°C.

LIFE CHARACTERISTICS	
Cycle life at 2C charge and 2C discharge, 100% DOD, 25°C	>25,000 to 80% initial capacity
Cycle life at 2C charge and 2C discharge, 100% DOD, 55°C	>6,000 to 80% initial capacity
Calendar life at 25°C	25 years

TEMPERATURE LIMITS	
Operating and Storage temperature range ⁴	- 50°C to + 65°C cell temperature

MODULE DIMENSIONS	
Length (L) x Width (W) x Height (H)	279 mm x 158 mm x 303 mm
Length (L) x Width (W) x Height (H) (Include Module Terminals)	279 mm x 158 mm x 333 mm
Weight	28.4 kg

TRANSPORTATION	
Transportation Specifications	UN 3480 compliant, Tested to UN

⁴Optimal storage temperature is 25°C.