SMARTEC®

POWERPACK 58V LITHIUM

SMARTEC POWERPACK BATTERY TECH SPECS

MODEL:	3510-1001
NOMINAL VOLTAGE:	51V
MAX VOLTAGE:	58V
NOMINAL CAPACITY:	40Ah (2kWh)
EXPANDABLE CAPACITY:	40Ah, 80Ah, 120Ah
CHEMISTRY:	Lithium Iron Phosphate
CYCLE LIFE:	Over 4,000 Cycles (80%DOD)
WEIGHT:	18kg
SIZE:	570mm X 181mm X 157mm
TERMINAL POST:	M8
MAX CONTINUOUS DISCHARGE CURRENT:	40A
PEAK DISCHARGE CURRENT:	150A
CUT-OFF VOLTAGE:	40V
CHARGING VOLTAGE:	57.6V
STANDARD CHARGE CURRENT:	20A
PEAK CHARGE CURRENT/REGENERATIVE:	80A
INTERNAL RESISTANCE:	50mΩ
OPERATING TEMPERATURE RANGE:	-20°C to 60°C

LIMITED 5 YEAR WARRANTY

MOWNET™ CAN CONNECTOR:

- Molex MX150 Series, 12 Pin, 477256010 or equivalent.
- SAE J1939 Compliant
- 12VDC, 2A auxiliary power supply

INTELLIGENT SYSTEM

Battery communicates to entire electric drive and work functions. The MowNet™ system ensures all components are in a safe, ready state prior to operation. Monitors all interconnected systems constantly and activates safety systems when operation exceeds allowable parameters.

BATTERY WILL REPORT INFORMATION TO THE MOWNET SYSTEM CONSISTING OF:

- STATE OF CHARGE OF THE FULL PACK
- INTERNAL TEMPERATURE
- FAULTS
- BALANCE STATE FOR CELL SERIES
- USED LIFE (NUMBER OF CHARGE CYCLES, HOUR METER, USED CAPACITY, ETC.)
- OPERATIONAL STATE (DISCHARGE, CHARGE, REGENERATION, ETC.)
- ESTIMATED TIME TO FULL CHARGE, WHILE CHARGING
- ID OF BATTERY PACK TO ALLOW ONLY AUTHORIZED EQUIPMENT TO OPERATE TOGETHER.

INTELLIGENT CHARGING

- 120 TO 240 VAC, 50-60HZ SINGLE PHASE INPUT
- COMMUNICATES WITH MOWNET SYSTEM
  - CHARGING STATUS & CHARGING RATE INFORMATION
  - ABILITY TO SET START AND STOP TIMES FOR CHARGING
  - MODIFY CHARGE RATE FOR EACH USE OR THE DEFAULT
  - FAULTS OR ERRORS OF THE CHARGING DEVICE

PROTECTION:

- OVER DISCHARGE
- OVER CHARGE INCLUDING IN REGEN MODE
- OVER CURRENT
- SHORT CIRCUIT
- ELECTRIC SHOCK WHEN HANDLING
- OVER TEMPERATURE
- UNDER TEMPERATURE
- FAIL SAFE OPEN CIRCUIT
- SAFE EMERGENCY STOP
- RESET WHEN SAFE CONDITIONS RETURN
- IP 66

SAFETY AND REGULATORY CERTIFICATIONS:

- UN 38.3
- UL
- CE
- RoHS & REACH
- FCC Rule 15

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