

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, 160Ah
CHEMISTRY:	Lithium Iron Phosphate
WEIGHT:	24kg
SIZE:	363mm X 363mm 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:	0°C to 50°C



MOWNET™ CAN CONNECTOR:

- Molex MX150 Series, 12 Pin, 334721206 or equivalent.
- CAN bus 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, USED CAPACITY, ETC.)
- OPERATIONAL STATE (DISCHARGE, CHARGE, REGENERATION, ETC.)
- 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
 - 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
- CHARGER CONNECTOR IS IP67 WHEN MATED
- CHARGER IS IP32 FOR INDOOR USE ONLY

SAFETY AND REGULATORY CERTIFICATIONS:

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

SPECIFICATIONS ARE SUBJECT TO CHANGE.