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:	597mm 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:	0°C to 50°C

LIMITED 3 YEAR WARRANTY

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.