

LFP  
CHEMISTRY  
LITHIUM  
BATTERY

DATA SHEET

**NE 3W 51172AL**

WARRANTY  
**36**  
MONTHS

**GENERAL CHARACTERISTICS**

Nominal Voltage (V)	51.2
Capacity (Ah)	172
No. of cell in series	16
No. of cell in parallel	2
Total No. of cell	32
Cell Type	Prismatic (86Ah)
Chemistry	LFP

**ELECTRICAL CHARACTERISTICS**

Maximum cut-off voltage (V)	58.4
Minimum cut-off voltage (V)	44.8
Charging Voltage (V)	56.8
Recommended charging current (A)	40
Maximum charging current (A)	80
Maximum discharging current (A)	150
Peak Discharge Current (A)	172
Duration of Peak Discharge Current	30Sec
Cell Discharging Protection level (V)	2.8
Cell charging protection level (V)	3.65
Balancing current (mA)	50
Cycle Life@20Sec	1500
DOD Level (%)	90

**PROTECTIONS**

Cell under voltage protection	Yes
Cell over voltage Protection	Yes
Over current protection	Yes
Short circuit protection	Yes
Temperature protection	Yes

**TEMPERATURE CHARACTERISTICS**

Working Temperature (°C)	0°C – 55°C
Storage Temperature (°C)	0°C - 45°C

**OTHERS**

Weight (Kg)	120 (Approx.)
Dimension (LxWxH)mm	(664x559x265)mm
IP Rating	IP66
Power Connector	Anderson SB-120 for Charging and Anderson SB-175 for Discharging

**WARNINGS**

During their use, the batteries should be kept away from heat sources and high voltages.

Do not dismantle or assemble the batteries by yourself.

Do not heat and burn of the batteries and throw them in fire.

Damping of the battery is prohibited.

Avoid charging battery near a fire source or in direct sunlight.

The battery should not be damaged by means of methods like knocking metallic things into the battery, hammering the battery, knocking it violent or etc.

Welding is not allowed to be conducted on the battery.

Do not directly contact with the leaking battery.

**NEURON ENERGY**

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