

TRION™

LFP BATTERY | MADE IN GERMANY

TRION 12.8V DUAL-PURPOSE, 150AH

BCI GROUP 31 HIGH POWER LFP BATTERY ADVANCED LIFEPO4 TECHNOLOGY

ELECTRICAL SPECIFICATIONS

NOMINAL VOLTAGE	12.8 V
NOMINAL CAPACITY	150 Ah
CAPACITY	1.92 kWh
RESERVE CAPACITY	360 min
MINIMUM SYSTEM VOLTAGE ¹	10.0 V
MAXIMUM SYSTEM VOLTAGE	15.6 V
PARALLEL CONNECTION	UP TO 4 BATTERIES
SHORT CIRCUIT PROTECTION	FUSE
DEEP CYCLE	YES
ENGINE STARTING	YES

CHARGING SPECIFICATIONS

CONTINUOUS CHARGE CURRENT ²	150 A
PEAK CHARGE CURRENTS ³	150-200 A (RECOMMENDED <10 min) 220-400 A (CUT-OFF AT 2 sec)
RECOMMENDED CHARGE VOLTAGE	14.4-14.8 V
BMS CHARGE VOLTAGE CUT-OFF	15.6 V
CELL BALANCING	PASSIVE BALANCING INCLUDED

DISCHARGE SPECIFICATIONS

CONTINUOUS DISCHARGE CURRENT	150 A
PEAK DISCHARGE CURRENTS ³	150-200 A (RECOMMENDED <10 min) 200-300 A (RECOMMENDED <5 min) 300-450 A (CUT-OFF AT 60 sec) 450-700 A (CUT-OFF AT 10 sec) 700-1,200 A (CUT-OFF AT 5 sec) >1,200 A (CUT-OFF AT 2 sec)
BMS DISCHARGE VOLTAGE CUT-OFF	10 V

TEMPERATURE SPECIFICATIONS

DISCHARGE TEMPERATURE ⁴	-20 TO 60°C
CHARGE TEMPERATURE	0 TO 60°C
STORAGE TEMPERATURE	-5 TO 35°C
BMS HIGH TEMPERATURE CUT-OFF	80°C

MECHANICAL SPECIFICATIONS

DIMENSIONS (L x W x H)	330 x 179 x 240 mm
WEIGHT	22 kg (48.5 lbs.)
TERMINAL TYPE	3/16-16 X 0.5"
CELL TYPE	50 Ah POUCH CELL - LiFePO4 G/C
MODEL	T31LFP12150D

COMPLIANCE STANDARDS

CE COMPLIANCE	BATTERY
IP67	INGRESS PROTECTION
UN38.3	CELLS & BATTERY LI-ION SHIPPING CERTIFICATION
UN 3480, CLASS 9	SHIPPING CLASSIFICATION

1) THE BATTERY CAN TOLERATE BRIEF VOLTAGE DROPS BELOW THIS VALUE.

2) CHARGING CURRENT WILL BE REDUCED ONCE THE BATTERY REACHES 85% STATE OF CHARGE (SOC) AND WILL CONTINUE TO TAPER UNTIL 100% SOC IS REACHED (FULLY CHARGED), CHARGING WILL STOP IF THE INTERNAL TEMPERATURE OF THE BATTERY EXCEEDS ITS MAXIMUM LIMIT.

3) THE BATTERY MAY CUT POWER BEFORE THE SPECIFIED TIME IF THE INTERNAL TEMPERATURE OF THE BATTERY EXCEEDS ITS MAXIMUM LIMIT.

4) DISCHARGE CURRENT WILL BE REDUCED AT LOW TEMPERATURE. OPERATING THE BATTERY OUTSIDE OF ITS RECOMMENDED TEMPERATURE RANGE MAY REDUCE LIFETIME AND CYCLE LIFE.



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