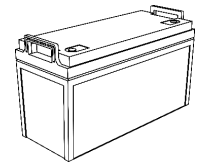
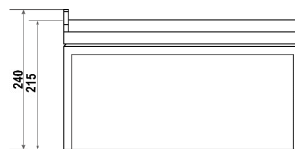
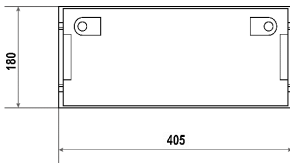




Lithium Iron Phosphate Battery Technical Data sheet

12 Volt 150 Amp Hour 175A Continuous Output (320A Peak)

Item	Specification	Performance Criteria	Standard Conditions
1	Cells	3.2V 75ah - Prismatic LiFePO4 (4S2P)	4 cells connected in series 2 pairs of above in parallel
		Cell case material	High grade lightweight nickel plated steel
2	Standard Capacity	C5 discharge rating to 10.5V - usable amp hours	150Ah (C5)
		Total Energy Storage (Watt Hours)	1920Wh
3	Voltage	Nominal Battery Voltage	12.8V
		Battery Recommended Bulk Charge Voltage range	14.2 - 14.6V
		Battery Recommended Float Voltage (DC)	13.6V
		Charge Profile (Constant Current/Constant Voltage - CC/CV)	LiFePO4 charge profile
		Single cell voltage balancing target voltage	3.65±0.025V
		Battery BMS Low voltage Protection	10.0±0.025V
		LV Protection BMS Recovery mode (Wake up)	Apply 10V & 1A or more to terminals from suitable LiFePO4 charger, switch mode power supply or connection of external parallel connected battery
4	Current	Single Current Equalization - cell balancing (mA)	35 ± 5mA
		Consumption Current (self-consumption)	≤25uA
		Recommended Charge Current for longest cycle life	30A (0.2C)
		Maximum Continuous Charging Current	150A (1C)
		Maximum Continuous Discharging Current	175A (1.17C)
		Maximum Peak Discharging Current (10 secs)	320A (2.1C)
5	Overcharge protection (single cell)	Over Charge Detection Voltage	3.75±0.025V
		Over Charge Detection Delay time (seconds)	1-1.6
6	Over discharge protection (single cell)	Over Charge Recovery Voltage	3.6±0.05V
		Over Discharge Detection Voltage	2.50V±0.0625V
7	OCP(over-current protection)	Time Delay for Over Discharge Detection	1.5±0.5S
		Over Discharge Recovery Voltage	3.00±0.075V
		Over Current Detection Voltage	100mV±25mV
8	Short-circuit protection	Over Current Detection	320±100A
		Over Current Detection Delay Time	1.8±0.5S
		Recovery Mode	Turn off the load and battery restores automatically
9	Internal resistance	Test Status	External short circuit
		Detection Delay Time	200—400uS
10	Temperature °C	Recovery Mode	Turn off the load and battery restores automatically
		Protection Circuit (MOSFET)	≤20mΩ
11	Cycle Life (0.2C _{20A})	Operating Temperature Range	-40 ~ +85°C
		Storage Temperature Range	-40 ~ +125°C
		80% Depth of Discharge	2500+
12	Dimensions	50% Depth of Discharge	4200+
		30% Depth of Discharge	5000+
		Case without handles - L x W x H (mm)	405 x 180 x 215
13	Weight	Case with handles (inc M8 bolts) - L x W x H (mm)	405 x 180 x 240
		Weight (kg)	19.6kg
14	IP rating	Waterproof & Dustproof	IP65
15	Certifications	ISO 9001:2015 Certified ROHS Certified CE Certified Audited by SGS, Asia Inspections UN 38.3 - Transportation safety certified IMDG 2014 special provision - non dangerous goods	



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