

Lithium Iron Phosphate - MONOBLOCK BATTERY

Durasol Energi Technof Series 12.8V monoblock battery is a high-tech product with multiple application scenarios which is developed by Intelenergi.

TFMB	12.8V100Ah	12.8V150Ah	12.8V200Ah
ELECTRICAL SPECIFICATIONS			
Nominal Voltage	12.8V	12.8V	12.8V
Nominal Capacity	100Ah	150Ah	200Ah
Energy	1280Wh	1920Wh	2560Wh
Operating Voltage range	8.8~14.6V ±.05V	8.8~14.6V ±.05V	8.8~14.6V ±.05V
Reconnect Voltage	10.8 V (2.7 ± 0.1 v)	10.8 V (2.7 ± 0.1 v)	10.8 V (2.7 ± 0.1 v)
Recommend Low Voltage Disconnect	11 V	11 V	11 V
Recommended Charge Current	20 A	30 A	40 A
Max Charge Current	0.5C	0.5C	0.5C
Recommended Discharge Current	0.5C	0.5C	0.5C
Maximum Discharge Current	100 A	150 A	200 A
Short Circuit Protection	200-600 μs	200-600 μs	200-600 μs
Type of battery	LFP battery (LiFePO4)	LFP battery (LiFePO4)	LFP battery (LiFePO4)
Self-discharge rate @25	<3% (90 days storage)	<3% (90 days storage)	<3% (90 days storage)
Maximum Modules in Series	4S	4S	4S
Maximum Modules in Parallel	10P	10P	10P
Self Discharge	<3% per month	<3% per month	<3% per month
Cycle Life	2500 cycles @ 0.5C, 80% DOD, @30°C 2000 cycles @ 0.5C, 100% DOD, @30°C	2500 cycles @ 0.5C, 80% DOD, @30°C 2000 cycles @ 0.5C, 100% DOD, @30°C	2500 cycles @ 0.5C, 80% DOD, @30°C 2000 cycles @ 0.5C, 100% DOD, @30°C
TEMPERATURE SPECIFICATIONS			
Discharge Temperature	-20 to 60 °C	-20 to 60 °C	-20 to 60 °C
Charge Temperature	0 to 55 °C	0 to 55 °C	0 to 55 °C
Storage Temperature	-10 to 45 °C	-10 to 45 °C	-10 to 45 °C
BMS High Temperature Cut-off	75 °C	75 °C	75 °C
Reconnect Temperature	50 °C	50 °C	50 °C
CHARGE SPECIFICATIONS			
Recommended Charge Voltage	14.2V - 14.6V	14.2V - 14.6V	14.2V - 14.6V
BMS Charge Voltage Cut-off	15.0V ± 0.02v (2s)	15.0V ± 0.02v (2s)	15.0V ± 0.02v (2s)
Reconnect Voltage	14.2V ± 0.05v	14.2V ± 0.05v	14.2V ± 0.05v
Balancing Voltage	13.6V ± 0.02v	13.6V ± 0.02v	13.6V ± 0.02v
MECHANICAL SPECIFICATIONS			
Dimensions (L*W*H)	329*172*214 ±1mm	483*170*240 ±1mm	522*240*218 ±1mm
Weight (apprx)	11 kg	17 kg	22 kg
Terminal Type	M8 x 1.25	M8 x 1.25	M8 x 1.25
Terminal Torque	80-100 in-lbs (9-11 N-m)	80 - 100 in-lbs (9-11 N-m)	80 - 100 in-lbs (9-11 N-m)
Case Material	ABS	ABS	ABS
Enclosure Protection	IP65	IP65	IP65
COMPLIANCE SPECIFICATIONS			
Certifications	UN38.3 /CE/FCC/ROHS	UN38.3 /CE/FCC/ROHS	UN38.3 /CE/FCC/ROHS
Shipping Classification	UN 3480, CLASS 9	UN 3480, CLASS 9	UN 3480, CLASS 9

Applications

