

B-TEC 12V 300Ah Slimline Lithium Battery - Enerdrive | Dometic

SKU	EPL-200BT-12V-SLIM	EPL-300BTM-12V	EPL-400BTM-12V
Nominal Voltage	12.8V	12.8V	12.8V
Nominal Capacity	200Ah	300Ah	400Ah
Charge Cycles (DOD – 80% under controlled conditions)	>2500 Cycles	>2500 Cycles	>2500 Cycles
Standard Charge Specification (Lithium profile charger required)			
Battery Charge Temperature	0 ° 45°C	0 ° 45°C	0 ° 45°C
Normal Charge Voltage CV/CC*	14.20 ° 14.60V	14.20 ° 14.60V	14.20 ° 14.60V
Standby (Float) Voltage	13.50 ° 13.80V	13.50 ° 13.80V	13.50 ° 13.80V
Maximum Charge Current	150A @ 25°C for 30mins	150A @ 25°C for 30mins	150A @ 25°C for 30mins
Recommended Charge Current for Maximum Life	60A-120A	60A-120A	60A-120A
Standard Discharge Specification			
Battery Discharge Temperature	-20 ° 60°C	-20 ° 60°C	-20 ° 60°C
Battery Output Voltage Range	11.00 ° 14.60V	11.00 ° 14.60V	11.00 ° 14.60V
Maximum Discharge Current	250A@25°C ± 5°C for 30mins	250A@25°C ± 5°C for 30mins	250A@25°C ± 5°C for 30mins
Pulse Discharge Current	450A for 1.0s	450A for 1.0s	450A for 1.0s
Discharge Cut-off Voltage	<11.20V	<11.20V	<11.20V
Circuit Protection	The battery is supplied with a LiFePO4 Battery Management System BMS that can monitor and optimize each single prismatic cell during charge & discharge, to protect the battery pack from overcharge, over discharge & short circuit. Overall, the BMS helps to ensure safe and accurate operation of the battery.	The battery is supplied with a LiFePO4 Battery Management System BMS that can monitor and optimize each single prismatic cell during charge & discharge, to protect the battery pack from overcharge, over discharge & short circuit. Overall, the BMS helps to ensure safe and accurate operation of the battery.	The battery is supplied with a LiFePO4 Battery Management System BMS that can monitor and optimize each single prismatic cell during charge & discharge, to protect the battery pack from overcharge, over discharge & short circuit. Overall, the BMS helps to ensure safe and accurate operation of the battery.
Over-Charge Protection			
Over-charge Protection Per Cell	3.75V ± 0.03V	3.75V ± 0.03V	3.75V ± 0.03V

SKU	EPL-200BT-12V-SLIM	EPL-300BTM-12V	EPL-400BTM-12V
Over-charge Release Per Cell	3.60V ± 0.05V	3.60V ± 0.05V	3.60V ± 0.05V
Over-charge Release Method	Discharge below release voltage	Discharge below release voltage	Discharge below release voltage
Over-Discharge Protection			
Over-discharge Protection Per Cell	2.80V ± 0.05V	2.80V ± 0.05V	2.80V ± 0.05V
Over-discharge Release Per Cell	3.20V ± 0.05V	3.20V ± 0.05V	3.20V ± 0.05V
Over-discharge Release Method	Apply Charge/Voltage >12.8V	Apply Charge/Voltage >12.8V	Apply Charge/Voltage >12.8V
Over Current Protection			
Discharge Over Current	280A for 25s – 400A for 3.5s	280A for 25s – 400A for 3.5s	280A for 25s – 400A for 3.5s
Protection Reset Time	5s Auto Release	5s Auto Release	5s Auto Release
Over Current Release Method	Disconnect Load	Disconnect Load	Disconnect Load
Over Temperature Protection			
Battery Discharge Over Temperature	Protection to 65°C ± 5°C	Protection to 65°C ± 5°C	Protection to 65°C ± 5°C
	Release at 50°C ± 5°C	Release at 50°C ± 5°C	Release at 50°C ± 5°C
Battery Charge Over Temperature	Protection to 55°C ± 5°C	Protection to 55°C ± 5°C	Protection to 55°C ± 5°C
	Release at 45°C ± 5°C	Release at 45°C ± 5°C	Release at 45°C ± 5°C
Short Circuit Protection	Auto release after 5s	Auto release after 5s	Auto release after 5s
Mechanical Characteristics			
Dimensions	Length 530mm	Length 630mm	Length 630mm
	Depth 83mm	Depth 176.5mm	Depth 216.5mm
	Height 600mm	Height 498mm	Height 498mm
Weight	Approx 30 Kg	Approx 48 Kg	Approx 60 Kg
Case Construction	Powder Coated Zinc Plate	Powder Coated Zinc Plate	Powder Coated Zinc Plate
Storage Information			
Temperature & Humidity Range	<30 days -20°C ÷ 60°C, 5 ÷ 75% RH	<30 days -20°C ÷ 60°C, 5 ÷ 75% RH	<30 days -20°C ÷ 60°C, 5 ÷ 75% RH
	>30 days -10°C ÷ 45°C, 5 ÷ 75% RH	>30 days -10°C ÷ 45°C, 5 ÷ 75% RH	>30 days -10°C ÷ 45°C, 5 ÷ 75% RH
Warranty	5 Years	5 Years	5 Years