

B-TEC 12V 100Ah G2 Lithium Battery - Dometic Mobile Power (Enerdrive)

SKU	EPL-100BT-12V-SLIM	EPL-100BT-12V-G2	EPL-125BT-12V-G2	EPL-200BT-12V-G2	EPL-300BT-12V-G2
Nominal Voltage	12.8V	12.8V	12.8V	12.8V	12.8V
Nominal Capacity	100Ah	100Ah	125Ah	200Ah	300Ah
Charge Cycles (DOD – 80% under controlled conditions)	>2500 Cycles	>2500 Cycles	>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	0 ° 45°C	0 ° 45°C
Normal Charge Voltage CV/CC*	14.20 ~ 14.60V	14.20 ~ 14.60V	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	13.50 ~ 13.80V	13.50 ~ 13.80V
Maximum Charge Current	80A @ 25°C for 30mins	60A @ 25°C for 30mins	60A @ 25°C for 30mins	150A @ 25°C for 30mins	190A @ 25°C for 30mins
Recommended Charge Current For Maximum Life, Charge in the lower amperage range	20~50A	20~60A	20~60A	40~100A	60~120A
Standard Discharge Specification					
Battery Discharge Temperature	-20 ~ 60°C	-20 ~ 60°C	-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	11.00 ~ 14.60V	11.00 ~ 14.60V
Maximum Discharge/ Pulse Current	100A @ 25°C ±5°C for 30 mins	100A @ 25°C ±5°C for 30 mins	100A @ 25°C ±5°C for 30 mins	200A @ 25°C ±5°C for 30 mins	250A @ 25°C ±5°C for 15 mins

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Pulse Discharge Current	250A for 1.0s	450A for 1.0s	450A for 1.0s	450A for 1.0s	450A for 1.0s
Discharge Cut-off Voltage	<11.20V	<11.20V	<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.	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	3.90V \pm 0.03V	3.90V \pm 0.03V	3.90V \pm 0.03V	3.90V \pm 0.03V	3.90V \pm 0.03V
Over-charge Release Per Cell	3.60V \pm 0.05V	3.60V \pm 0.05V	3.60V \pm 0.05V	3.60V \pm 0.05V	3.60V \pm 0.05V
Over-charge Release Method	Discharge below release voltage	Discharge below release voltage	Discharge below release voltage	Discharge below release voltage	Discharge below release voltage
Over-Discharge Protection					
Over-discharge Protection Per Cell	2.80V \pm 0.05V	2.80V \pm 0.05V	2.80V \pm 0.05V	2.80V \pm 0.05V	2.80V \pm 0.05V
Over-discharge Release Per Cell	3.20V \pm 0.05V	3.20V \pm 0.05V	3.20V \pm 0.05V	3.20V \pm 0.05V	3.20V \pm 0.05V
Over-discharge Release Method	Apply Charge/ Voltage >12.8V	Apply Charge/ Voltage >12.8V	Apply Charge/ Voltage >12.8V	Apply Charge/ Voltage >12.8V	Apply Charge/ Voltage >12.8V

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Battery Manual Reset Button	No	Yes	Yes	Yes	Yes
Over Current Protection					
Discharge Over Current	110A for 30s – 450A for 1s	110A for 30s – 450A for 1s	110A for 30s – 450A for 1s	220A for 30s – 450A for 1s	280A for 25s – 400A for 3.5s
Protection Reset Time	Approx 10s Auto Release	Approx 10s Auto Release	Approx 10s Auto Release	Approx 10s Auto Release	Approx 10s Auto Release
Over Current Release Method	Disconnect Load	Disconnect Load	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	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	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	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	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	Auto release after 5s	Auto release after 5s
Dimensions					
Length	551mm	318mm	318mm	505mm	521mm
Width	110mm	165mm	165mm	172.5mm	280mm
Height	240mm	232mm	232mm	265mm	238mm
Weight	Approx 12.5 Kg	Approx 12.6kg	Approx 15.5 Kg	Approx 25.0 Kg	Approx 38.2 Kg
Case Construction	High Impact ABS Plastic	High Impact ABS Plastic	High Impact ABS Plastic	High Impact ABS Plastic	High Impact ABS Plastic
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 -20°C ☐ 60°C, 5 ☐ 75% RH	<30 days -20°C ☐ 60°C, 5 ☐ 75% RH
	>90 days -10°C ☐	>90 days -10°C ☐	>90 days -10°C ☐	>90 days -10°C ☐	>90 days -10°C ☐

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	45°C, 5 ~ 75% RH	45°C, 5 ~ 75% RH	45°C, 5 ~ 75% RH	45°C, 5 ~ 75% RH	45°C, 5 ~ 75% RH
Warranty	5 Years	5 Years	5 Years	5 Years	5 Years