

AMPower

Durathon® Battery



Durathon E1109 Battery

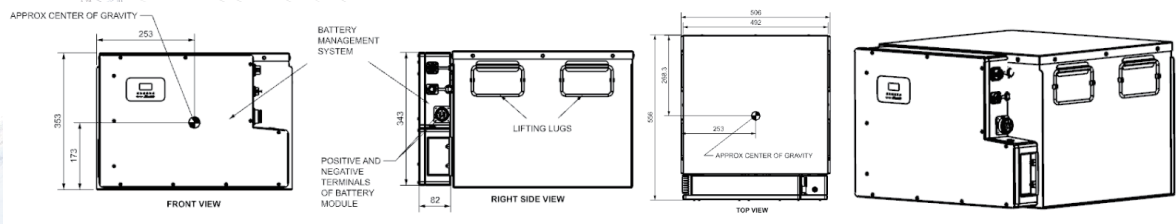
General Data

Nominal Energy	10.5	kWh
Nominal Capacity	92	Ah
Ambient Conditions	-40 to 65	°C
Humidity	<95% (no condensation)	RH
Altitude	<3,000	m
Warm-up Time ¹	≤16	hours
Max Internal Heater Power	390	W
Avg Heater Power Consumption, CDC ²	<10	W
Heater Power Consumption, Float	<120	W
Internal Low Voltage Disconnect ³	91.5 to 100.3	VDC
Dimensions(H×D×W)	353×556×506	mm
Weight	117±2	kg
Battery Certifications	UL9540A,CE,UL1973on-going	

Technical Data

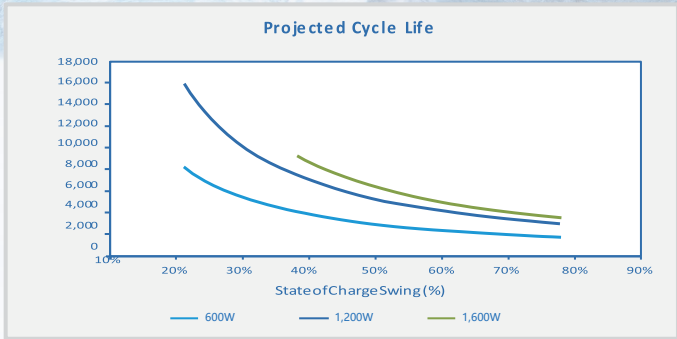
Power Availability/Backup			Charge Discharge Cycling			Interconnects	
Usable Energy ⁴	9	kWh	Cycling Load Range	0.9 to 2.8	kW	Battery Terminals	Quick Plug Terminal
Usable Capacity ⁴	82	Ah	Cycling Discharge current	8 to 24	A	Ground Connection	Standard: Single M6
Max Recharge Current	16	A	Max Discharge Current (1h)	60	A	Communication	RS485/CAN/LAN
Recharge Voltage Range	120 to 160	VDC	Max Discharge Current (1min)	120	A	Communication Protocol	MODBUS
Open Circuit Voltage	113.5	VDC	Cycles Between Return to Top of Charge (TOC) ⁵	40	Cycles	Ingress Protection (IP)	IP55
Design Life	20	Yrs				Operating Status Lights	2LEDs
						SOCStatus Lights	4LEDs

Dimension



Cycle Life Projection – At Varying Loads

Partial state of charge operation. Cycle life defined as the number of cycles after which<80% of the battery’s BOL energy throughput remains. Battery projected to experience continued linear reduction in energy throughput below 80%.



- ① After warm-up, battery is ready to charge or discharge.
- ② When continuously charged and discharged at rated load.
- ③ Exact voltage is load-dependent.
- ④ C/10 rate at beginning of life.
- ⑤ Battery does not need to be taken off line to return to top of charge.
- ⑥ Durathon is a trademark of Zhejiang AMPower Co., Ltd.

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ADVOCATING GREEN ENERGY PERFECTING HUMAN LIFE

