AMPOWER

Durathon E4815 Telecom Battery



General Data		
Nominal Energy	ominal Energy 15 kV	
Nominal Capacity	276	Ah
Ambient Conditions ¹	-40 to 65	°C
Humidity	<95%	RH
Altitude	<3,000	m
Warm-up Time²	<16	hours
Max Internal Heater Power	600	W
Avg Heater Power Consumption, CDC ³	<10	W
Heater Power Consumption, Float	<130	W
Internal Low Voltage Disconnect ⁴	-43.7 to -47.9	VDC

Battery Certifications
UL 1973 Listed
CE (EMC)
NEBS Level 3 (GR-63-Core, GR-1089) and Outside of Plant (GR-3108) ⁵
FCC/CIPR22/NEBS Class A
ETSI EN 300 132, ETSI EN 300 386
REACH
RoHS 6/6
ISTA 2B
Product of GE ecomagination

Technical Data

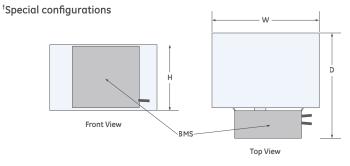
Charge Discharge Cyclin	ng	
CDC Operating Voltages:		
Recharge	-55.5 VDC	
Charge Start⁴	-47.4 to -48.5	VDC
Charge Time Setting⁵	1 to 2.5	hour
Cycling Load Range	0.8 to 2.4	kW
Max Recharge Current	100	Α
Cycles Between Return to Top of Charge (TOC) ⁷	40	cycles

Power Availability/Backup		
Usable Energy ⁸	13 kWh	
Usable Capacity ⁸	250 Ah	
Operating Voltages:		
Recharge	-55.5	VDC
Open Circuit	-54.2	VDC
Discharge Load Range ⁹	0.8 to 4	kW
Max Recharge Current	100	А
Projected Float Life	15	Yr

Interconnects		
Battery Terminals	Single ¼"-20 threaded stud per pole	
Ground Connection	Standard: Single M6 Optional: Double lug with NEBS configuration (N)	
Communication	RS485, MODBUS	
Ingress Protection (IP)	IP 20	
Digital Outputs	2 Form C	
Status Lights	2 LEDs	

Ordering Options

Battery Model	Fusing	H ¹⁰ (mm)	D ¹⁰ (mm)	W ¹⁰ (mm)	Weight (kg)
E4815-AA-01x [†]	1 contactor, no fuse	319	663	526	147
E4815-AB-01x	1 contactor, no fuse	303	638	509	147
E4815-AA-02x	2 contactors, 175A fuse	319	663	526	147
E4815-AB-02x	2 contactors, 175A fuse	303	638	509	147



х	Configuration
Α	Anderson Connector
В	Portuguese
С	California (USA)
F	French
Н	Arabic
-	Italian
J	Japanese

Configuration
Turkish
NEBS
Russian
Chinese
Spanish
Vietnamese

Example:

E4815-AA-01NC = 48V, 15kWh, 1 contactor, no fuse configuration, NEBS certified, California configured.

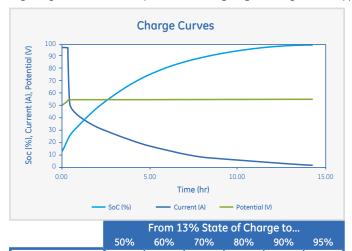


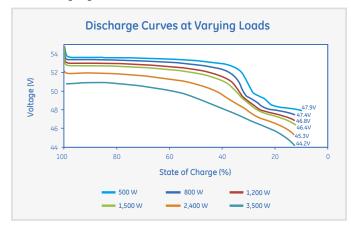


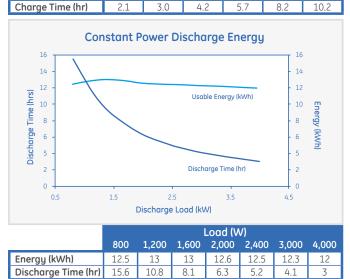
Performance Characteristics

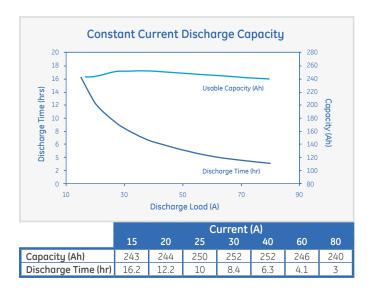


The performance data presented below is based on testing done at labs at 25°C and applies to ambient temperatures from -40°C to 65°C at beginning of life (BOL). Actual performance may vary. Discharge curves apply after 24-hour charge cycle.



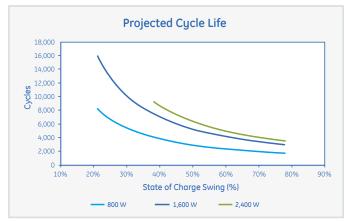






Cycle Life Projection – At Varying Loads

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%.



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- ¹Ambient conditions apply to BMS electronics:

 - 5°C to 55°C no performance impact -40°C to 5°C and 55°C to 60°C reduced performance
 - 60°C to 65°C non-destructive with ability to automatically reconnect
- ²After warm-up, battery is ready to charge or discharge
- ³When continuously charged and discharged at rated load
- Exact voltage is load-dependent
- ⁵With NEBS Configuration (N)
- 6 Charge times: Loads >2kW = 2.5 hours; Loads <2kW = 1 to 2.5 hours
- ⁷Battery does not need to be taken offline to return to top of charge
- °C/10 rate at beginning of life
- Discharge above 2.4kW must be preceded by 24 hour charge
- 10 Dimensions are nominal
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