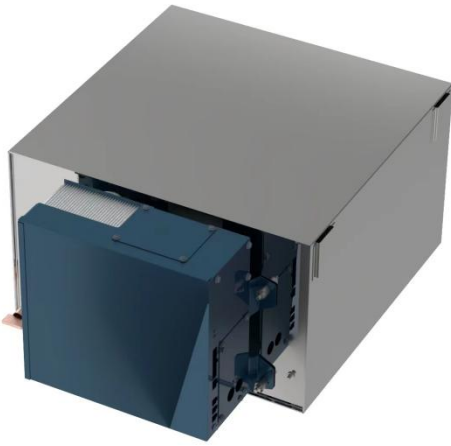


Durathon® Battery



Technology Engineered by General Electric Company and AM Power under

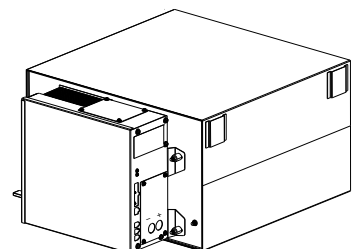
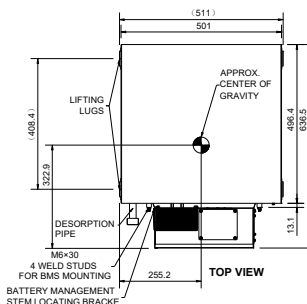
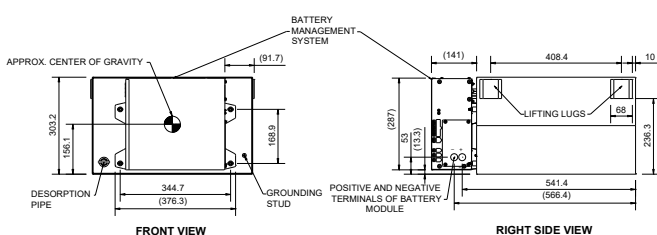
General Data

Nominal Energy	15	kWh
Nominal Capacity	276	Ah
Ambient Conditions ¹	-40 to 65	°C
Humidity	<95% (no condensation)	RH
Altitude	<3,000	m
Warm-up Time ²	<16	hours
Max Internal Heater Power	600	W
Avg Heater Power Consumption, CDC ³	<10	W
Heater Power Consumption, Float	<140	W
Internal Low Voltage Disconnect ⁴	-43.3 to -47.8	Vdc
Dimensions (H×D×W)	303×637×511	mm
Weight	145±2	kg
Battery Certifications	UL 1973 Listed, CE, UL9540A	

Technical Data

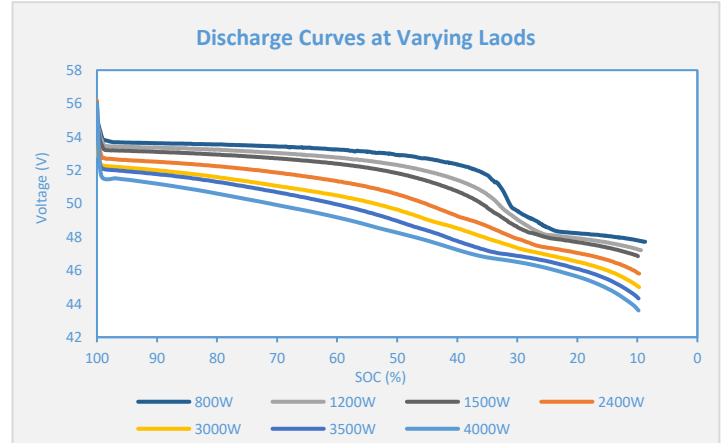
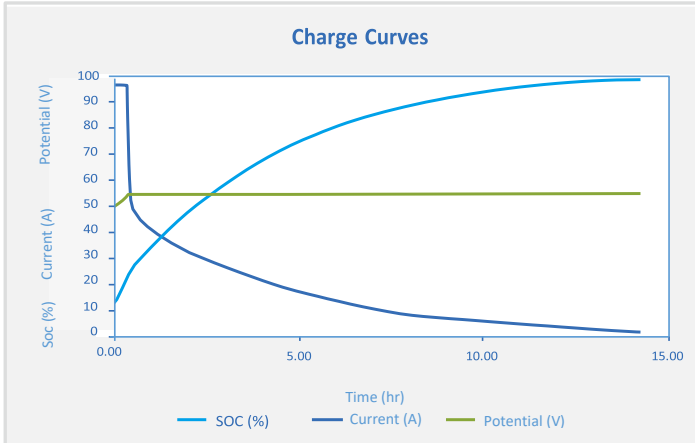
Power Availability/Backup			Charge Discharge Cycling			Interconnects	
Usable Energy ⁵	13	kWh	CDC Operating Voltages:			Battery Terminals	Two pole, M6 Ring Terminal
Usable Capacity ⁵	250	Ah	Recharge	-55.8	Vdc	Ground Connection	Standard: Single M6
Operating Voltages:			Charge Start ⁴	-44 to -47.8	Vdc	Communication	RS485, CAN, DI/DO
Equalizing charge	-55.8	Vdc	Cycling Load Range	0.8 to 4	kW	Communication Protocol	MODBUS
Floating charge	-55.5	Vdc	Max Recharge Current	100	A	Ingress Protection (IP)	IP 20
Open Circuit	-54.2	Vdc	Cycles Between Return to Top of Charge (TOC) ⁷	40	cycles	Status Lights	2 LEDs
Discharge Load Range ⁶	0.8 to 5	kW					
Max Recharge Current	100	A					
Projected Float Life	15	Yr					

Dimension

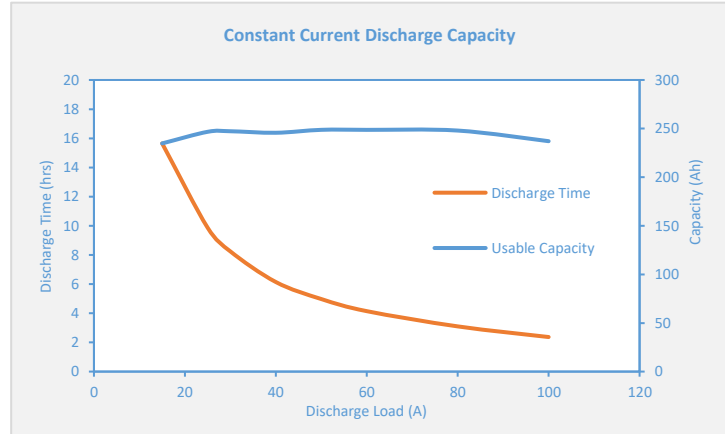
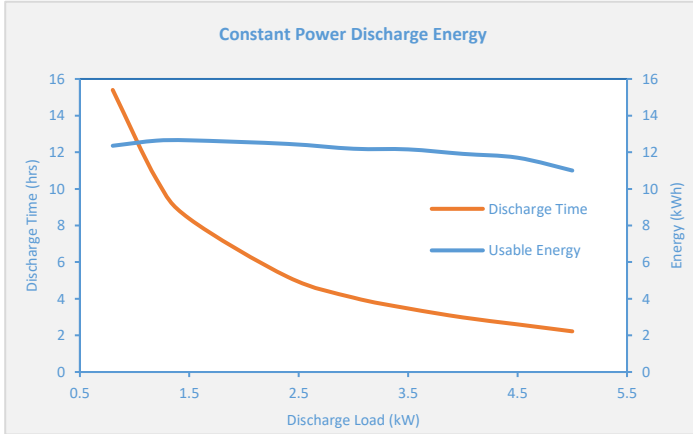


Performance Characteristics

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.



	From 13% State of Charge to...					
	50%	60%	70%	80%	90%	95%
Charge Time (hr)	2.1	3	4.2	5.7	8.2	10.2

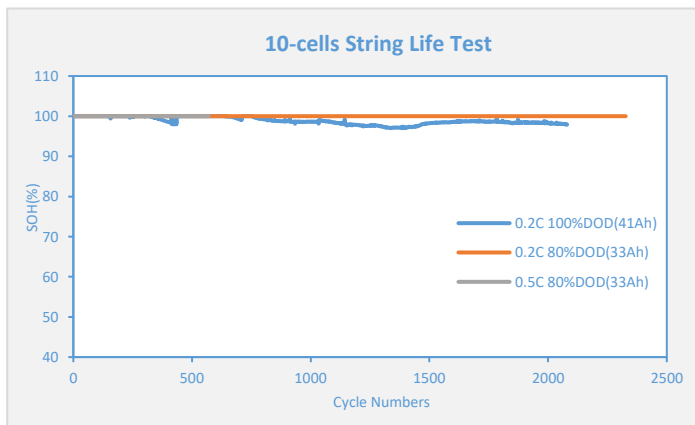


	Load (W)							
	800	1,200	1,500	2,400	3,000	3,500	4,000	5,000
Energy (kWh)	12.4	13	12.7	12.5	12.2	12.2	11.9	11
Discharge Time (hr)	15.4	10.8	8.4	5.2	4.1	3.5	3	2.2

	Current (A)							
	15	25	30	40	50	60	80	100
Capacity (Ah)	234	250	247	245	248	248	247	235
Discharge Time (hr)	15.6	10	8.2	6.1	5	4.1	3.1	2.3

Cycle Life Performance

The performance data presented below is the lab testing results at ambient temperature (25°C). Basing the testing results, the predicted cycle life at 0.5C 80%DOD is >6000 cycles with >80%SOH.



- 1 When continuously charged and discharged at rated load.
- 2 Exact voltage is load dependent. Extendable end of discharge voltage up to 80V during overload discharge.
- 3 Dimensions are nominal.
- 4 C/10 rate at beginning of life.
- 5 Battery does not need to be taken offline to return to top of charge.

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