



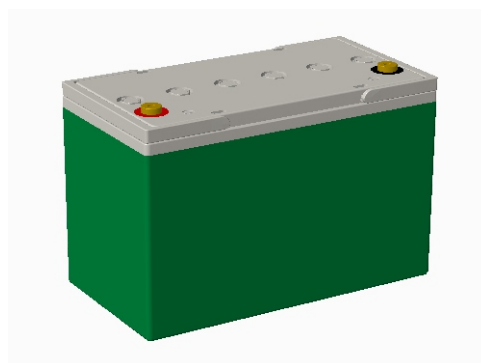
LRC Series-Lead Carbon

LRC12-80

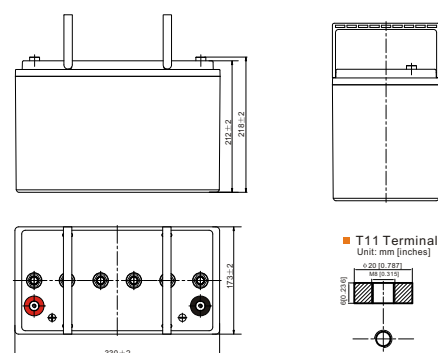


Specifications

Rated Voltage	12V	
Nominal Capacity	82 Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	330±2mm (13.0 in.)
	Width	173±2mm (6.81 in.)
	Container Height	212±2mm (8.35 in.)
	Total Height	218±2mm (8.58 in.)
Approx Weight	39.0Kg (72.8lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	82 Ah	(10hr, 8.2A, 1.80V/cell)
	75 Ah	(5hr, 15.0A, 1.75V/cell)
	64.5 Ah	(3hr, 21.5A, 1.75V/cell)
Short Circuit Current	800A	
Internal Resistance(25°C)	Approx. 7.0mΩ	
Operating Temp. Range	Discharge	-20°C~55°C (-4°F~131°F)
	Charge	-20°C~40°C (-4°F~104°F)
	Storage	-20°C~50°C (-4°F~122°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max. Discharging Current(25°C)	50.0A	
Max. Charging Current(25°C)	30.0A	
Charge voltage(25°C)	Cycle(Equalization)	2.30~2.40V/cell
	Temp. Coefficient	-4mV/cell/°C
Effect of temp. to Capacity	40°C (104°F)	106%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	≤3.5% per month at 25°C	



Layout



Constant Current Discharge (Amperes) at 25°C (77°F)

F.V./Time	0.5h	1h	2h	3h	4h	5h	6h	7h	8h	10h	20h
1.95V/cell	39.2	29.4	18.7	14.7	12.5	10.6	9.3	8.30	7.60	6.30	3.40
1.90V/cell	49.1	35.7	22.2	17.3	14.6	12.3	10.7	9.6	8.8	7.30	3.90
1.85V/cell	58.4	40.6	25.8	20.1	17.1	14.4	12.5	11.0	9.9	8.00	4.30
1.80V/cell	65.4	44.6	27.5	21.0	17.6	14.7	12.7	11.1	10.1	8.20	4.40
1.75V/cell	69.4	46.1	27.8	21.5	17.8	15.0	12.9	11.4	10.2	8.40	4.50
1.70V/cell	72.5	47.1	28.1	22.0	18.2	15.3	13.1	11.6	10.3	8.50	4.60

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V./Time	0.5h	1h	2h	3h	4h	5h	6h	7h	8h	10h	20h
1.95V/cell	73.5	54.9	35.7	27.4	23.2	19.8	17.5	16.1	15.1	12.6	6.80
1.90V/cell	91.8	66.6	42.5	32.1	27.1	23.1	20.5	18.7	17.6	14.6	7.80
1.85V/cell	111.3	79.3	50.1	38.1	31.8	26.9	23.7	21.6	20.1	16.6	8.70
1.80V/cell	122.4	83.2	52.5	39.1	32.6	27.4	24.1	21.8	20.3	16.8	8.80
1.75V/cell	137.5	86.2	52.7	39.7	33.1	27.9	24.6	22.2	20.5	16.9	8.90
1.70V/cell	140.1	87.2	53.0	40.6	33.5	28.5	25.1	22.8	20.6	17.1	9.00



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Applications

- Mobile container storage system
- Peak load shifting energy storage system
- Load tracking energy storage system
- Oil and electricity hybrid energy storage system
- Grid frequency adjustment energy storage system
- New energy communication base station, IDC, UPS etc.
- New energy generation (solar, wind, PV/wind hybrid) access to energy storage systems

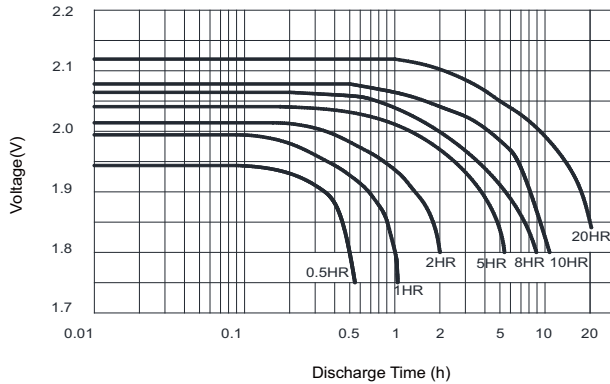
General Features

- Design life ≥ 12 years
- Adopt super carbon technology + deep cycle technology
- Excellent charging acceptance and super fast charge/large discharge performance
- Modular design and installation for less space, easy installation & maintenance
- Innovative robust design to ensure superb safety and reliability
- Horizontal installation, solve the problem of electrolyte stratification

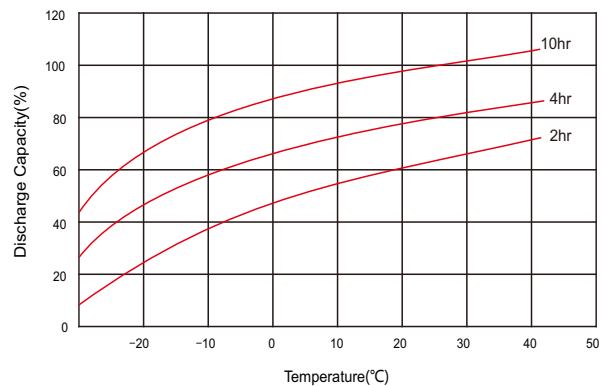
Standards

- Compliance with IEC 61427, BS EN 61427 standards
- Manufactured in Leoch@IATF16949, ISO 45001, ISO 9001 and ISO14001 certified production facilities

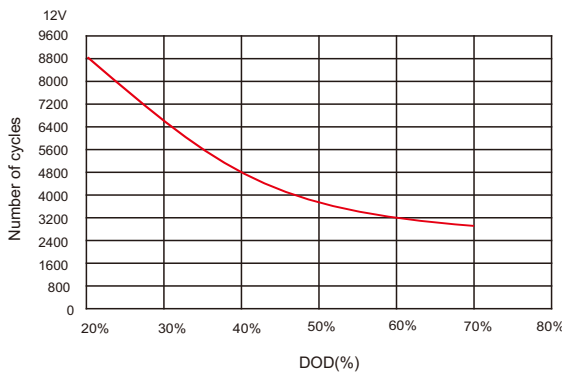
Discharge Characteristics



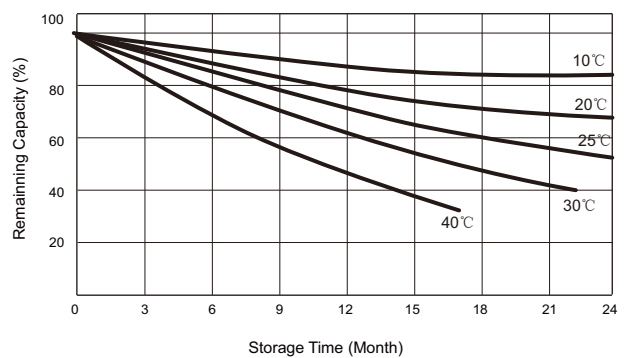
Temperature effects in relation to battery capacity



Cycle Life in Relation to DOD



Self Discharge Characteristics



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