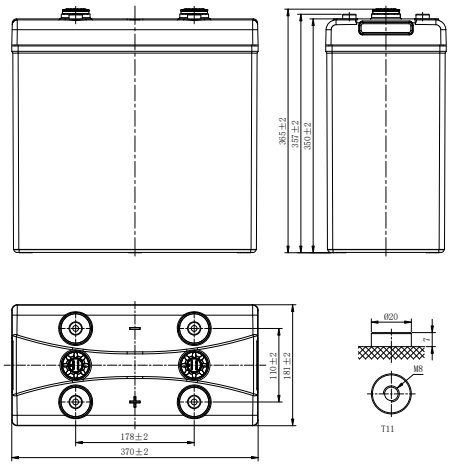
# LRC SERIES-LEAD CARBON

LRC2-800 (2V800Ah)

LEOCH BATTERY




## CHARACTERISTICS

| Item | | Specifications |
|---|---|---|
| Rated Voltage | | 2V |
| Nominal Capacity (25˚C) | $C_{10}$,1.80V/cell | 800Ah |
| Dimension | Length | 370mm (14.6inches) |
| | Width | 181mm (7.13inches) |
| | Container Height | 350mm (13.8inches) |
| | Total Height | 365mm (14.4inches) |
| Approx Weight | | 61.8kg (136.2lbs) |
| Terminal | | T11(M8) |
| Container Material | | ABS (UL94 HB or V-0 optional) |
| Short-circuit current | | 8800A |
| Internal Resistance (25˚C) | | Approx 0.25 mΩ (Fully charged) |
| Operating Temp. Range | Discharge | -20~55˚C (-4~131°F) |
| | Charge | -20~40˚C (-4~104°F) |
| | Storage | -20~50˚C (-4~122°F) |
| Nominal Operating Temp. Range | | 25±3˚C (77±5°F) |
| Max.Charging Current (25˚C) | | 0.3C |
| Charge voltage (25˚C) | Standby Use | Cycle Use |
| | / | 2.35-2.40V/cell |
| Temp. Coeffcient | / | -5mV/cell/˚C |
| Effect of temp. to Capacity | 40˚C (104°F) | 103% |
| | 25˚C (77°F) | 100% |
| | 0˚C (32°F) | 86% |
| Self Discharge | ≤3.5% per month at 25°C (77°F) | |

## DISCHARGE TABLE

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

| F.V/Time | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 24h | 36h | 48h | 60h | 72h | 84h | 96h | 108h | 120h | 240h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.90V/cell | 317.8 | 218.9 | 166.5 | 141.4 | 118.3 | 102.6 | 83.2 | 71.5 | 35.3 | 23.9 | 18.3 | / | / | / | / | / | / | 4.40 |
| 1.85V/cell | 342.6 | 235.0 | 182.9 | 150.7 | 126.6 | 110.0 | 89.6 | 77.4 | 38.2 | 25.9 | 19.9 | 16.0 | 13.5 | 11.8 | 10.6 | 9.55 | 8.70 | / |
| 1.80V/cell | 409.1 | 249.3 | 200.0 | 157.3 | 131.8 | 114.4 | 92.9 | 80.0 | 39.2 | 26.5 | 20.4 | / | / | / | / | / | / | / |
| 1.75V/cell | 440.0 | 260.7 | 205.7 | 160.1 | 134.2 | 116.5 | 94.7 | 81.6 | 40.2 | 27.2 | 20.9 | / | / | / | / | / | / | / |

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

| F.V/Time | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 24h | 36h | 48h | 60h | 72h | 84h | 96h | 108h | 120h | 240h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.90V/cell | 623.6 | 433.9 | 333.1 | 284.6 | 238.7 | 207.2 | 168.5 | 145.3 | 68.6 | 46.4 | 35.7 | / | / | / | / | / | / | 8.84 |
| 1.85V/cell | 673.2 | 459.6 | 363.1 | 302.4 | 254.2 | 221.1 | 180.4 | 156.0 | 72.0 | 48.8 | 37.5 | 32.0 | 27.0 | 23.6 | 21.2 | 19.2 | 17.4 | / |
| 1.80V/cell | 790.4 | 483.4 | 394.3 | 311.8 | 262.2 | 228.2 | 186.4 | 161.3 | 74.5 | 50.4 | 38.7 | / | / | / | / | / | / | / |
| 1.75V/cell | 833.2 | 502.4 | 404.4 | 317.4 | 266.6 | 231.7 | 188.8 | 163.1 | 76.0 | 51.4 | 39.5 | / | / | / | / | / | / | / |

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## APPLICATIONS

- Mobile container storage system
- Peak load shifting 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

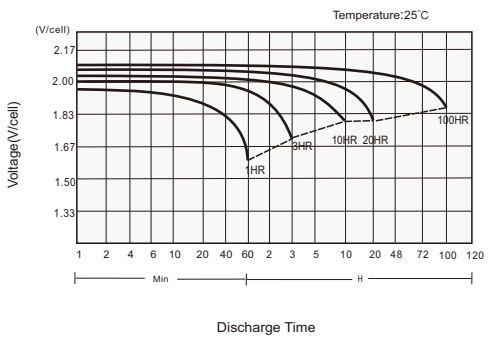
## GENERAL FEATURES

- Super Carbon technology enhanced active material to maximize cycle performance and PSoC operation
- 100% leak tested to ensure sealintegrity
- High-strength, High Temperature resistant, UL94-V0 Compliant Case and Cover optional
- Extended service life in high temperature applications
- Modular design and installation for less space, easy installation and maintenance

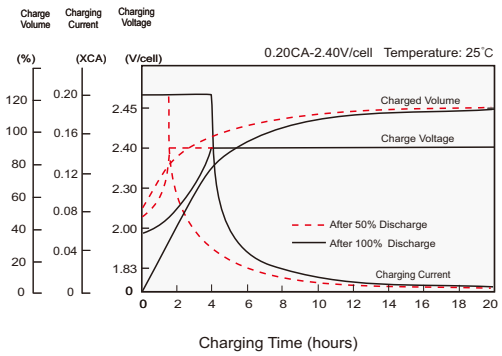
## STANDARDS

- Compliance with IEC 61427, BS EN 61427 standards
- UL,CE Approved
- Manufactured in Leoch®IATF16949, ISO 45001,ISO 9001 and ISO 14001 certified production facilities

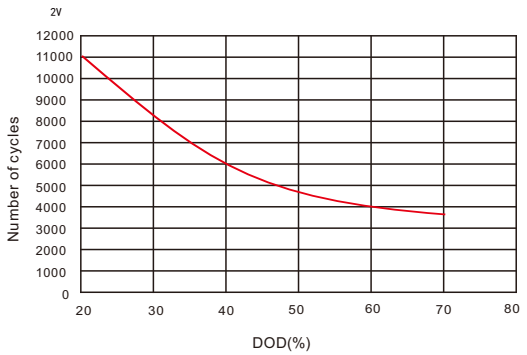
## Discharge Characteristics



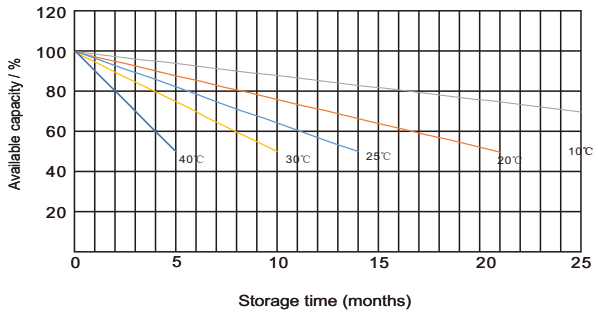

## Charging Characteristics




## Cycle Life in Relation to DoD




## Self Discharge Characteristics





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