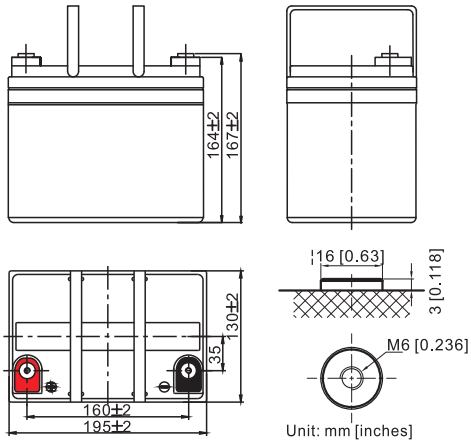
XP Series-Ultra High Rate
XP12-150(12V150W)

LEOCH BATTERY

Specifications

Rated Voltage		12V
Nominal Rate (W_{15},1.67V/cell)		150W/cell
Nominal Capacity(C_{20},1.80V/cell)		35Ah
Dimension	Length Width Container Height Total Height	197±2mm (7.68 inches) 130±2mm (5.12 inches) 164±2mm (6.46 inches) 164±2mm (6.57 inches)
Approx. Weight		10.4 Kg (22.9 lbs)
Terminal		M6
Container Material		ABS
Rated Capacity (25°C)	35.0 Ah 33.5 Ah 30.8 Ah 28.6 Ah 26.2 Ah	(20hr, 1.75A,1.80V/cell) (10hr, 3.35A,1.80V/cell) (5hr, 6.15A,1.75V/cell) (3hr, 9.54A,1.75V/cell) (1hr, 26.2A,1.67V/cell)
Max. Discharge Current		630A
Internal Resistance (25°C)		Approx. 7.0mΩ
Operating Temp.Range	Discharge Charge Storage	-15 ~ 50°C (5 ~ 122°F) 0 ~ 40°C (32 ~ 104°F) -15 ~ 40°C (5 ~ 104°F)
Nominal Operating Temp. Range		25±3°C (77±5°F)
Max.Charging Current(25°C)		10.5A
Charge voltage(25°C)	Float Temp. Coefficient Equalization	13.5V -3mV/cell/°C 14.1~14.4V
Effect of temp. to Capacity	40°C (104°F) 25°C (77°F) 0°C (32°F)	103% 100% 86%
Self Discharge		≤3%/month @ 25°C

Layout



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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	102.3	73.7	59.1	49.4	37.9	28.3	22.6	12.7	9.04	7.06	5.85	5.01	3.93	3.26	1.72
1.80V/cell	118.2	82.7	65.2	53.7	40.7	29.9	23.8	13.2	9.31	7.28	6.02	5.15	4.03	3.35	1.75
1.75V/cell	132.8	89.9	70.3	57.2	42.7	31.2	24.7	13.5	9.54	7.46	6.15	5.25	4.11	3.41	1.79
1.70V/cell	144.0	96.6	74.9	60.5	44.6	32.3	25.5	13.9	9.7	7.60	6.27	5.37	4.20	3.48	1.82
1.67V/cell	156.0	103.3	79.1	63.6	46.4	33.3	26.2	14.2	10.0	7.78	6.41	5.48	4.31	3.54	1.85
1.60V/cell	166.8	109.2	82.7	66.6	48.4	34.4	26.8	14.6	10.2	7.98	6.58	5.63	4.40	3.62	1.90

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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	199.0	144.2	116.2	97.6	75.4	56.4	45.2	25.6	18.3	14.3	11.9	10.2	8.05	6.71	3.55
1.80V/cell	227.6	160.2	127.1	105.1	80.1	59.3	47.4	26.3	18.7	14.7	12.2	10.4	8.22	6.85	3.59
1.75V/cell	253.0	172.4	135.7	111.1	83.4	61.2	48.9	26.9	19.0	14.9	12.4	10.6	8.33	6.94	3.66
1.70V/cell	271.2	183.3	142.9	116.2	86.3	62.9	49.9	27.4	19.3	15.1	12.5	10.8	8.45	7.03	3.70
1.67V/cell	291.5	194.5	150.0	121.4	89.3	64.5	51.2	28.0	19.7	15.4	12.7	10.9	8.62	7.12	3.75
1.60V/cell	308.1	203.4	155.2	125.9	92.2	65.9	51.7	28.3	20.0	15.7	13.0	11.1	8.73	7.21	3.81

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LEOCH BATTERY

Applications

- UPS
- Hospitals & Testing Laboratories
- Emergency Power Supply
- Electric starting
- Telecommunications
- Data Centers

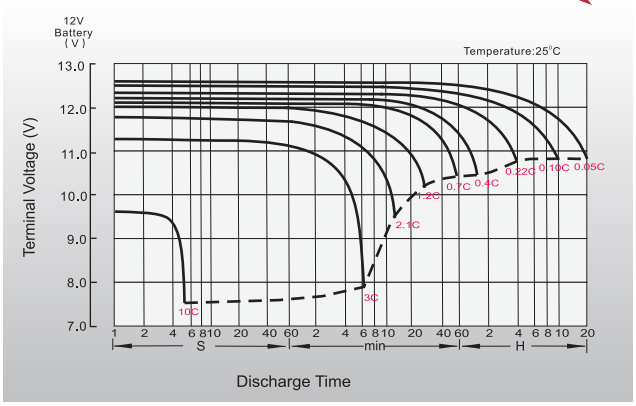
General Features

- Special designed grids for optimized high power density
- Oversized partition intercell welds, providing low resistance connections & minimal power loss
- Advanced lead tin calcium alloy, reduces grid corrosion & promotes long battery life
- Performance excels at high rates of discharge & recharge
- High integrity post seal for long life

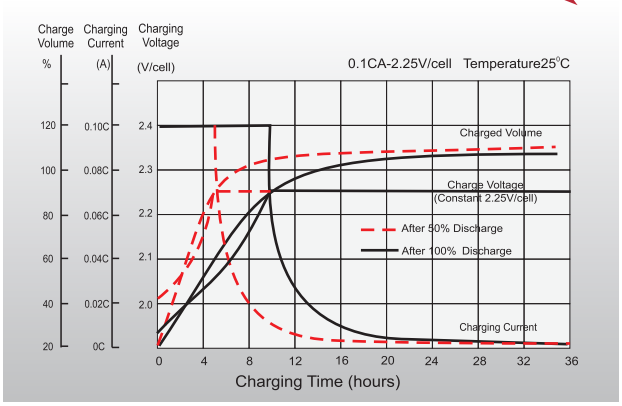
Standards

- Compliance with IEC 60896 standards
- Classified as "Long Life" according to Eurobat
- CE, UL Certified
- Manufactured in Leoch®TS16949, OHSAS 18001,ISO 9001 and ISO 14001 certified production facilities

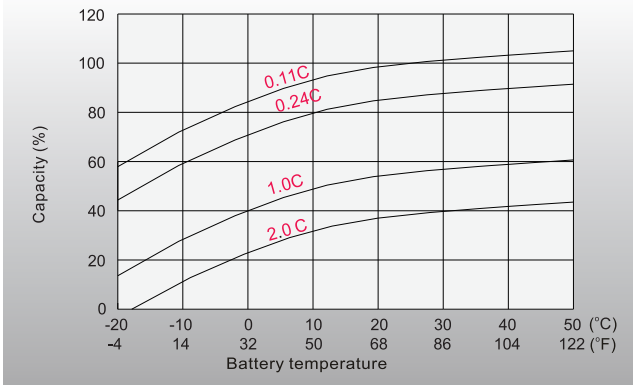
Discharge Characteristics



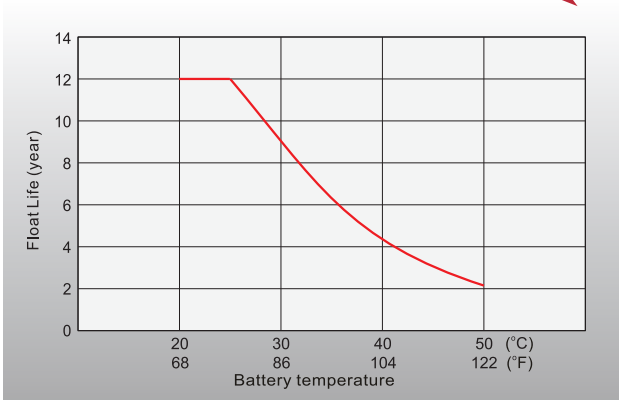
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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