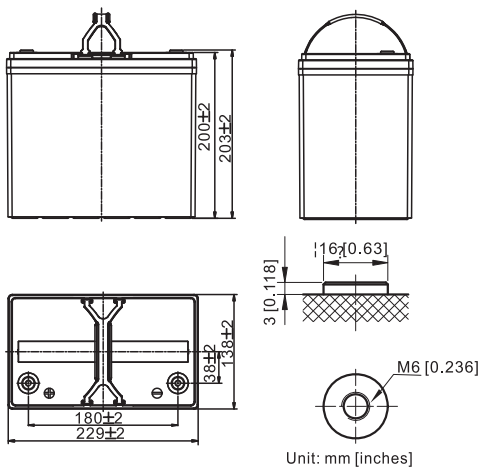
XP Series-Ultra High Rate
XP12-210(12V210W)

LEOCH BATTERY

Specifications

Rated Voltage		12V
Nominal Rate (W_{15},1.67V/cell)		225.1W/cell
Nominal Capacity(C_{20},1.80V/cell)		55Ah
Dimension	Length Width Container Height Total Height	229±2mm (9.02 inches) 138±2mm (5.43 inches) 200±2mm (7.87 inches) 203±2mm (7.99 inches)
Approx. Weight		17.6 Kg (38.8 lbs)
Terminal		M6
Container Material		ABS
Rated Capacity (25°C)	55.0 Ah 52.6 Ah 47.4 Ah 43.8 Ah 37.8 Ah	(20hr, 2.75A,1.80V/cell) (10hr, 5.26A,1.80V/cell) (5hr, 9.47A,1.75V/cell) (3hr, 14.6A,1.75V/cell) (1hr, 37.8A,1.67V/cell)
Max. Discharge Current		825A
Internal Resistance (25°C)		Approx. 5.0mΩ
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)		16.5A
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	134.8	100.4	84.5	72.8	55.8	40.6	32.5	19.2	13.7	10.8	8.99	7.75	6.16	5.13	2.64
1.80V/cell	160.4	114.2	95.7	80.2	60.0	43.0	34.2	20.0	14.2	11.2	9.28	7.97	6.33	5.26	2.75
1.75V/cell	185.3	126.4	103.4	85.8	62.8	45.0	35.4	20.6	14.6	11.4	9.47	8.13	6.45	5.36	2.81
1.70V/cell	200.9	137.7	110.9	91.2	66.0	46.6	36.6	21.0	15.0	11.7	9.69	8.32	6.59	5.45	2.86
1.67V/cell	217.6	145.5	118.7	96.0	68.3	48.2	37.8	21.6	15.2	11.9	9.88	8.49	6.71	5.56	2.91
1.60V/cell	234.2	155.6	123.8	100.0	70.8	49.9	38.9	22.0	15.5	12.2	10.1	8.73	6.88	5.68	2.99

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	262.3	196.5	166.3	143.9	110.9	81.1	65.0	38.5	27.7	21.9	18.3	15.8	12.6	10.5	5.46
1.80V/cell	308.7	221.1	186.4	157.0	118.1	85.3	68.0	39.9	28.6	22.5	18.8	16.2	12.9	10.8	5.65
1.75V/cell	353.2	242.4	199.6	166.5	122.7	88.3	70.0	41.0	29.2	22.9	19.0	16.4	13.1	10.9	5.75
1.70V/cell	378.4	261.2	211.5	175.2	127.6	90.6	71.8	41.4	29.7	23.3	19.3	16.7	13.3	11.0	5.81
1.67V/cell	406.6	274.0	225.1	183.2	131.4	93.3	73.7	42.3	30.0	23.6	19.6	16.9	13.4	11.2	5.89
1.60V/cell	432.7	289.8	232.3	189.0	134.8	95.6	75.2	42.7	30.4	24.0	20.0	17.2	13.6	11.3	5.98

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LEOCH BATTERY

Applications

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

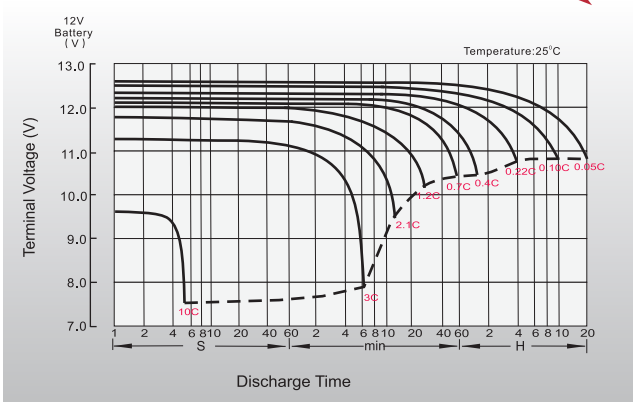
General Features

- 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

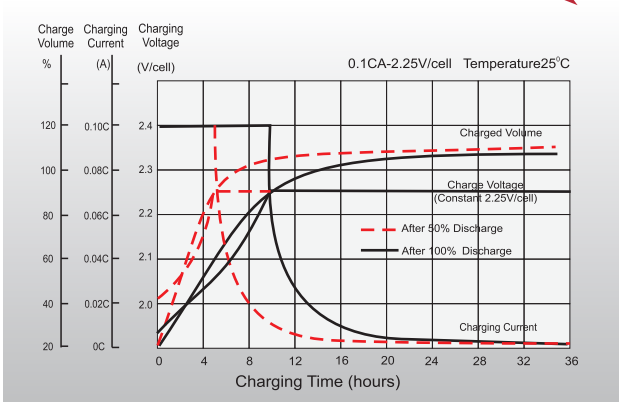
Standards

- 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

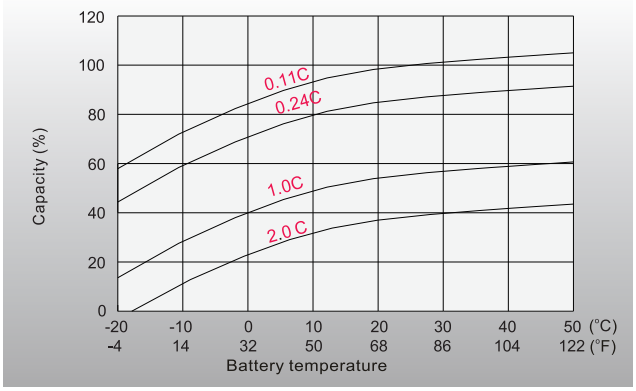
Discharge Characteristics



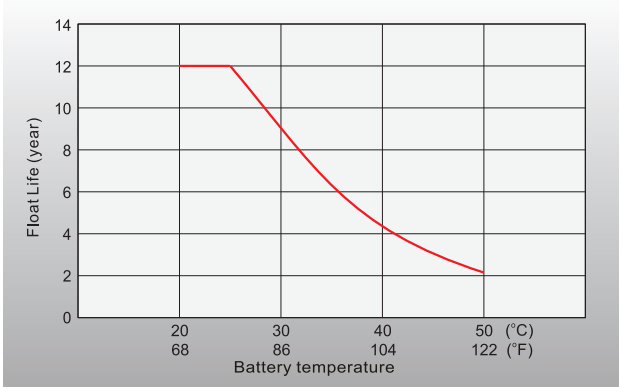
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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Publication No.: LB-XP12-210-PD-EN-V1.1-201903