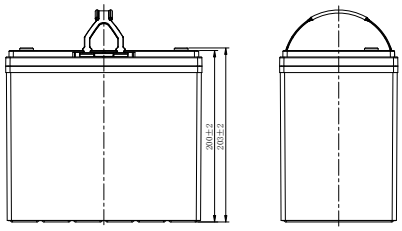
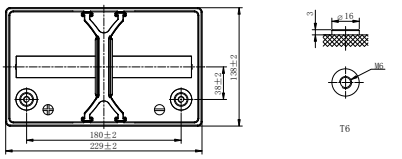
XP SERIES-ULTRA HIGH RATE

XP12-210 (12V210W)

LEOCH BATTERY





CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Rate (25℃)	W_{15},1.67V/cell	210W/cell
Nominal Capacity (25℃)	C_{20},1.80V/cell	55Ah
Dimension	Length	229mm (9.02inches)
	Width	138mm (5.43inches)
	Container Height	200mm (7.87inches)
	Total Height	203mm (7.99inches)
Approx Weight		17.7kg (39.0lbs)
Terminal		T6(M6)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		1262.4A
Internal Resistance (25℃)		Approx 5 mΩ (Fully charged)
Operating Temp. Range	Discharge	-15~50℃ (5~122°F)
	Charge	-20~40℃ (-4~104°F)
	Storage	-15~40℃ (5~104°F)
Nominal Operating Temp. Range		25±3℃ (77±5°F)
Max.Charging Current (25℃)		0.25C
Charge voltage (25℃)	Float Charge	Equalization Charge
	2.25-2.30V/cell	2.30-2.40V/cell
Temp. Coeffcient	-3mV/cell/℃	-4mV/cell/℃
Effect of temp. to Capacity	40℃ (104°F)	106%
	25℃ (77°F)	100%
	0℃ (32°F)	86%
Self Discharge	≤3% per month at 25°C (77°F)	

DISCHARGE TABLE

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	147.1	107.6	90.4	74.4	59.7	42.6	34.1	19.2	13.7	10.8	8.99	7.75	6.16	5.13	2.64
1.80V/cell	175.1	122.4	102.4	81.9	64.2	45.2	35.9	20.0	14.2	11.2	9.28	7.97	6.33	5.26	2.75
1.75V/cell	202.2	135.5	110.6	87.7	67.2	47.3	37.1	20.6	14.6	11.4	9.47	8.13	6.45	5.36	2.81
1.70V/cell	219.3	147.6	118.6	93.2	70.6	48.9	38.4	21.0	15.0	11.7	9.69	8.32	6.59	5.45	2.86
1.67V/cell	237.5	156.0	127.0	98.1	73.1	50.6	39.5	21.6	15.2	11.9	9.88	8.49	6.71	5.56	2.91
1.60V/cell	255.6	166.8	132.4	102.2	75.7	52.4	40.8	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	286.3	210.7	177.9	147.0	118.6	85.2	68.2	38.5	27.7	21.9	18.3	15.8	12.6	10.5	5.46
1.80V/cell	336.9	237.0	199.4	160.4	126.3	89.6	71.3	39.9	28.6	22.5	18.8	16.2	12.9	10.8	5.65
1.75V/cell	385.5	259.9	213.5	170.1	131.3	92.7	73.4	41.0	29.2	22.9	19.0	16.4	13.1	10.9	5.75
1.70V/cell	413.0	280.0	226.2	179.0	136.5	95.1	75.3	41.4	29.7	23.3	19.3	16.7	13.3	11.0	5.81
1.67V/cell	443.8	293.8	240.8	187.2	140.6	98.0	77.1	42.3	30.0	23.6	19.6	16.9	13.4	11.2	5.89
1.60V/cell	472.3	310.7	248.5	193.1	144.2	100.4	78.9	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 and Testing Laboratories
- Emergency Power Supply
- Electric starting
- Telecommunications
- Data Centers

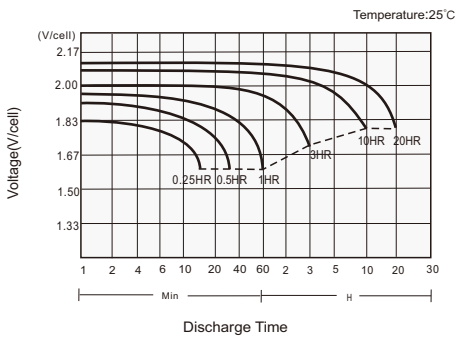
GENERAL FEATURES

- 12 years design life (25℃)
- Excellent high current performance - optimised for short discharge time
- Advanced AGM technology for superior high-rate power
- Long Life Alloy - minimizing grid growth, reducing gassing and extending battery life
- Epoxy-sealed posts eliminate leaks
- Optimal energy density - saves floor space

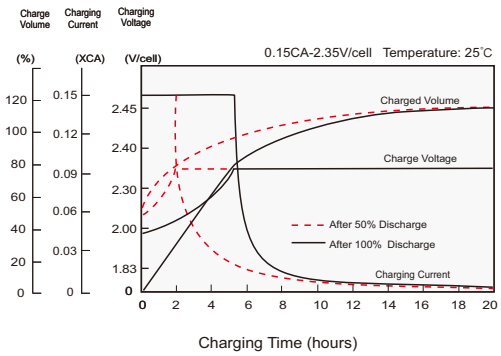
STANDARDS

- Compliance with IEC 60896 standards
- Classified as "Long Life" according to Eurobat
- CE,UL Approved
- Manufactured in Leoch®IATF 16949, ISO 45001,ISO 9001 and ISO 14001 certified production facilities

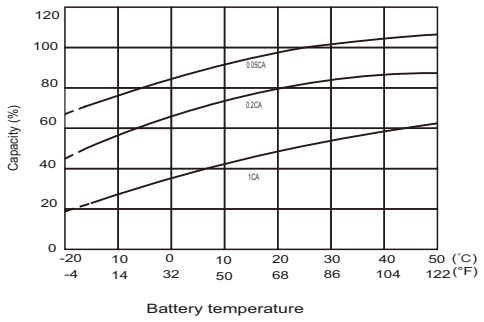
Discharge Characteristics



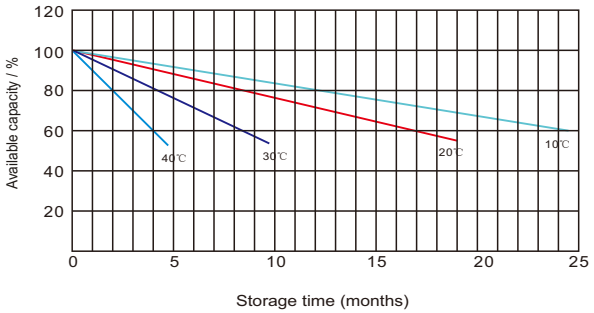
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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