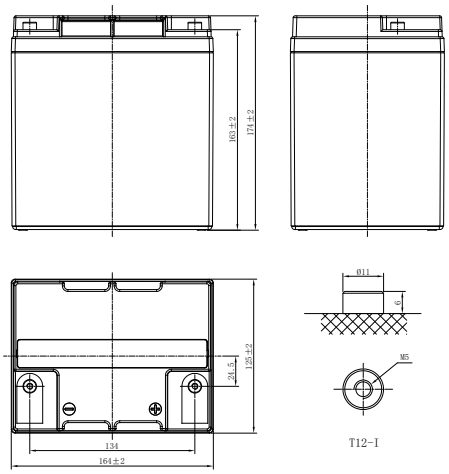
XP SERIES-ULTRA HIGH RATE

XP12-100 (12V100W)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Rate (25℃)	W_{15},1.67V/cell	100W/cell
Nominal Capacity (25℃)	C_{20},1.80V/cell	27.6Ah
Dimension	Length	164mm (6.46inches)
	Width	125mm (4.92inches)
	Container Height	174mm (6.85inches)
	Total Height	174mm (6.85inches)
Approx Weight		8.40kg (18.5lbs)
Terminal		T12-I/T12(M5)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		690A
Internal Resistance (25℃)		Approx 8.5 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℃)	Standby Use	Equalization Use
	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	86.6	59.3	46.5	37.8	27.8	20.3	16.7	9.58	6.92	5.51	4.69	4.02	3.16	2.59	1.37
1.80V/cell	93.2	62.8	48.7	39.3	28.7	20.9	17.1	9.76	7.03	5.59	4.76	4.08	3.21	2.62	1.38
1.75V/cell	98.2	65.3	50.4	40.4	29.4	21.3	17.4	9.94	7.14	5.67	4.82	4.13	3.25	2.65	1.40
1.70V/cell	102.8	68.0	52.0	41.6	30.2	21.8	17.7	10.1	7.25	5.75	4.89	4.18	3.28	2.68	1.41
1.67V/cell	106.4	69.9	53.3	42.4	30.7	22.2	18.0	10.2	7.32	5.80	4.93	4.21	3.31	2.69	1.42
1.60V/cell	112.8	72.8	55.2	43.7	31.5	22.7	18.4	10.4	7.45	5.90	5.01	4.27	3.35	2.73	1.44
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	163.9	112.8	89.0	72.8	53.8	39.4	32.4	18.8	13.6	10.9	9.26	7.95	6.27	5.14	2.74
1.80V/cell	174.6	118.7	92.8	75.3	55.2	40.4	33.1	19.1	13.8	11.0	9.38	8.06	6.36	5.21	2.77
1.75V/cell	181.9	122.6	95.3	77.0	56.4	41.1	33.6	19.4	14.0	11.1	9.49	8.14	6.42	5.25	2.80
1.70V/cell	188.6	126.7	97.9	78.8	57.5	41.8	34.1	19.6	14.2	11.3	9.61	8.23	6.48	5.31	2.82
1.67V/cell	193.6	129.5	100.0	80.2	58.4	42.4	34.6	19.8	14.3	11.4	9.68	8.30	6.53	5.34	2.84
1.60V/cell	201.4	133.3	102.7	82.2	59.7	43.2	35.2	20.1	14.5	11.5	9.81	8.40	6.62	5.40	2.88

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LEOCH BATTERY

APPLICATIONS

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

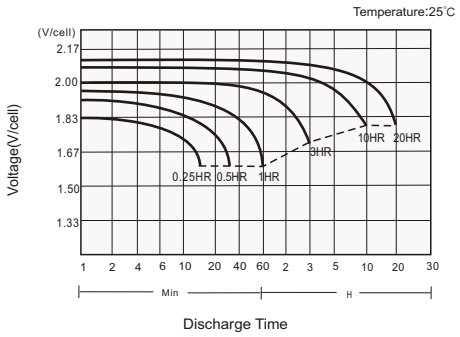
GENERAL FEATURES

- 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

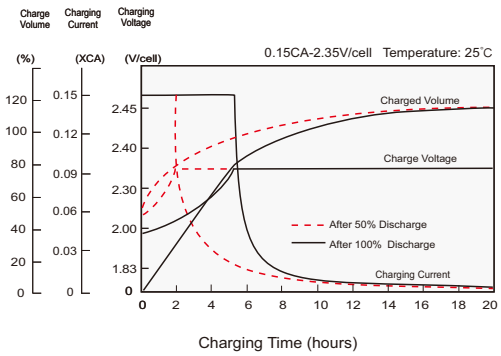
STANDARDS

- 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

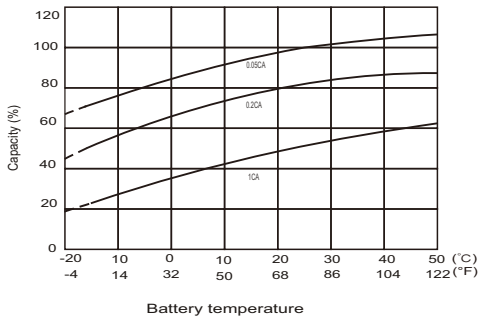
Discharge Characteristics



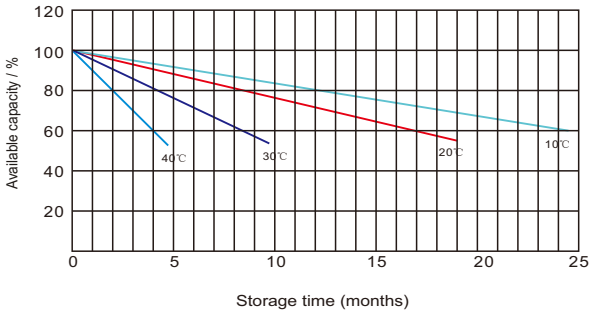
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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