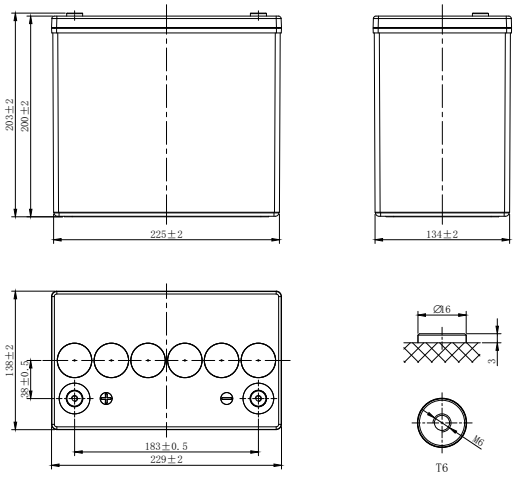
HXP-PURE LEAD HIGH RATE

HXP12-210 (12V210W)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Rate (25℃)	W_{15},1.67V/cell	210W/cell
Nominal Capacity (25℃)	C_{10},1.80V/cell	50Ah
Dimension	Length	229mm (9.02inches)
	Width	138mm (5.43inches)
	Container Height	200mm (7.87inches)
	Total Height	203mm (7.99inches)
Approx Weight		16.5kg (36.4lbs)
Terminal		T6(M6)
Container Material		PC-ABS (UL94 V-0)
Short-circuit current		1100.0A
Internal Resistance (25℃)		Approx 5.8 mΩ (Fully charged)
Operating Temp. Range	Discharge	-40~65℃ (-40~149°F)
	Charge	-20~54℃ (-4~129°F)
	Storage	-20~50℃ (-4~122°F)
Nominal Operating Temp. Range		25±3℃ (77±5°F)
Max.Charging Current (25℃)		0.3C
Charge voltage (25℃)	Standby Use	Equalization Use
	2.27±0.02V/cell	2.35-2.40V/cell
Temp. Coeffcient	-3mV/cell/℃	-4mV/cell/℃
Effect of temp. to Capacity	40℃ (104°F)	103%
	25℃ (77°F)	100%
	0℃ (32°F)	86%
Self Discharge	HXP series batteries can be stored up to 24 months at 25°C(77°F), For higher temperatures the time interval will be shorter.Battery needs to be given a freshening charge when the OCV approach 2.10V/cell or when the maximum storage time is reached, whichever occurs first.	

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	139.8	102.3	85.9	70.7	53.0	40.5	32.4	18.3	13.0	10.3	8.55	7.37	5.86	4.88	2.51
1.80V/cell	166.4	116.3	97.3	77.9	55.0	43.0	34.1	19.0	13.5	10.6	8.82	7.58	6.02	5.00	2.61
1.75V/cell	192.2	128.8	103.1	82.5	57.0	45.0	35.3	19.6	13.9	10.8	9.00	7.73	6.13	5.10	2.67
1.70V/cell	208.5	140.3	108.7	85.5	59.0	46.5	36.5	20.0	14.3	11.1	9.21	7.91	6.26	5.18	2.72
1.67V/cell	225.8	148.3	114.7	90.0	62.0	48.1	37.5	20.5	14.4	11.3	9.39	8.07	6.38	5.29	2.77
1.60V/cell	243.0	158.6	119.9	93.0	65.0	49.8	38.8	20.9	14.7	11.6	9.60	8.30	6.54	5.40	2.84

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	272.1	200.3	169.1	139.7	101.6	81.0	64.8	36.6	26.3	20.8	17.4	15.0	12.0	9.98	5.19
1.80V/cell	320.2	225.3	180.9	152.5	104.2	85.2	67.8	37.9	27.2	21.4	17.9	15.4	12.3	10.3	5.37
1.75V/cell	366.4	247.1	190.3	157.3	106.8	88.1	69.8	39.0	27.8	21.8	18.1	15.6	12.5	10.4	5.47
1.70V/cell	392.6	266.2	199.3	161.0	109.2	90.4	71.6	39.4	28.2	22.1	18.3	15.9	12.6	10.5	5.52
1.67V/cell	421.9	279.3	210.0	165.4	114.1	93.2	73.3	40.2	28.5	22.4	18.6	16.1	12.7	10.6	5.60
1.60V/cell	449.0	295.3	218.0	168.0	117.6	95.4	75.0	40.6	28.9	22.8	19.0	16.3	12.9	10.7	5.68

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APPLICATIONS

- Data Centre
- UPS high power backup supply
- Emergency power supply
- Starting system
- Power tools

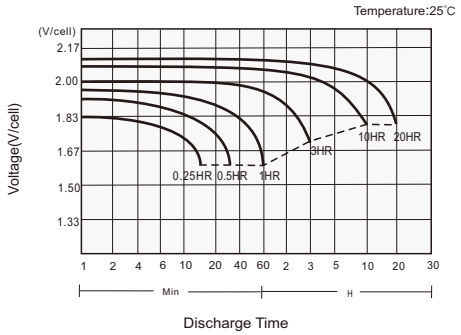
GENERAL FEATURES

- 15 years design life (25°C)
- Utlizes TPPL technology, thin positive grids and unique manufacturing process to maximize corrosion resistance and service life while increasing energy density
- Specifically designed for high-rate discharge applications
- Wide Wpc range of front and top terminal monoblocs
- UL 94 V-0 Case and cover heat sealed and 100% tested to prevent leaks

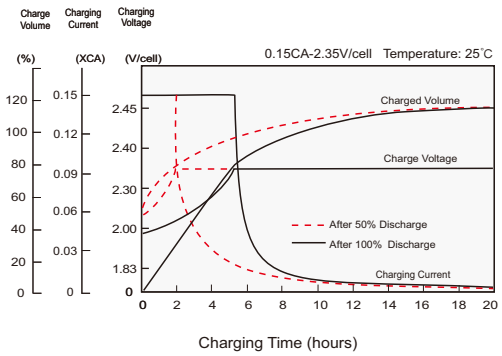
STANDARDS

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

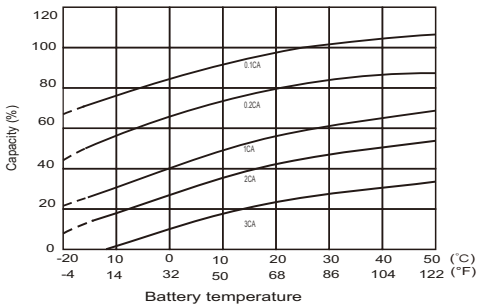
Discharge Characteristics



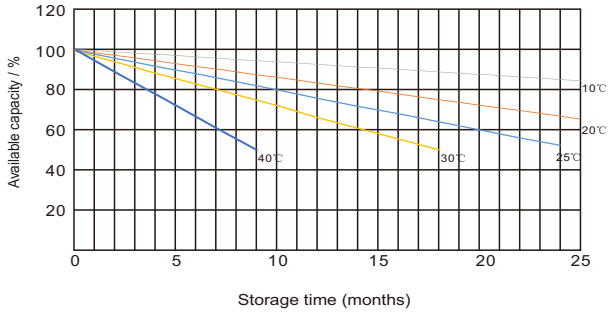
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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