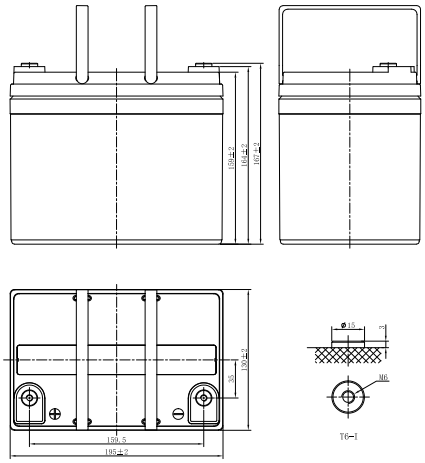
LP SERIES-GENERAL PURPOSE

LP12-35 (12V35Ah)

LEOCH BATTERY





CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Capacity (25˚C)	C_{20},1.75V/cell	35Ah
Dimension	Length	195mm (7.68inches)
	Width	130mm (5.12inches)
	Container Height	164mm (6.46inches)
	Total Height	167mm (6.57inches)
Approx Weight		10.2kg (22.5lbs)
Terminal		T6/T6-I(M6)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		875A
Internal Resistance (25˚C)		Approx 7 mΩ (Fully charged)
Operating Temp. Range	Discharge	-15~50˚C (5~122°F)
	Charge	-20~40˚C (-4~104°F)
	Storage	-15~40˚C (5~104°F)
Nominal Operating Temp. Range		25±3˚C (77±5°F)
Max.Charging Current (25˚C)		0.3C
Charge voltage (25˚C)	Standby Use	Cycle Use
	2.25-2.30V/cell	2.35-2.45V/cell
Temp. Coeffcient	-3mV/cell/˚C	-5mV/cell/˚C
Effect of temp. to Capacity	40˚C (104°F)	103%
	25˚C (77°F)	100%
	0˚C (32°F)	86%
Self Discharge	≤3% per month at 25°C (77°F). LP series batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

DISCHARGE TABLE

Constant Current Discharge (Amperes) at 25°C (77°F)																
F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	132.5	89.8	69.7	57.2	42.1	30.8	24.4	17.1	13.5	9.53	7.50	6.23	5.31	3.93	3.26	1.69
1.80V/cell	142.5	95.1	73.2	59.5	43.4	31.6	25.0	17.5	13.7	9.69	7.61	6.32	5.39	4.03	3.35	1.72
1.75V/cell	150.2	99.0	75.6	61.2	44.5	32.3	25.5	17.8	14.0	9.85	7.71	6.40	5.45	4.11	3.41	1.75
1.70V/cell	157.3	102.9	78.1	62.9	45.7	33.0	26.0	18.1	14.2	9.99	7.82	6.49	5.52	4.20	3.48	1.82
1.67V/cell	162.7	105.8	80.0	64.2	46.5	33.6	26.4	18.4	14.4	10.1	7.89	6.55	5.57	4.31	3.54	1.85
1.60V/cell	172.6	110.3	82.8	66.1	47.7	34.4	26.9	18.7	14.6	10.3	8.03	6.65	5.65	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	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	250.7	170.8	133.5	110.2	81.4	59.7	47.4	33.4	26.4	18.7	14.8	12.3	10.5	8.05	6.71	3.55
1.80V/cell	267.0	179.8	139.2	114.0	83.6	61.1	48.4	34.0	26.8	19.0	15.0	12.5	10.7	8.22	6.85	3.59
1.75V/cell	278.3	185.7	143.0	116.5	85.3	62.2	49.2	34.5	27.2	19.3	15.2	12.6	10.8	8.33	6.94	3.66
1.70V/cell	288.6	191.8	146.8	119.3	87.1	63.4	50.0	35.1	27.6	19.5	15.3	12.8	10.9	8.45	7.03	3.70
1.67V/cell	296.1	196.1	150.0	121.5	88.4	64.2	50.7	35.4	27.8	19.7	15.5	12.9	11.0	8.62	7.12	3.75
1.60V/cell	308.1	201.9	154.1	124.5	90.4	65.4	51.6	36.1	28.3	20.0	15.7	13.0	11.1	8.73	7.21	3.81

LP SERIES-GENERAL PURPOSE

LP12-35 (12V35Ah)

LEOCH BATTERY

APPLICATIONS

- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply
- Auto control system

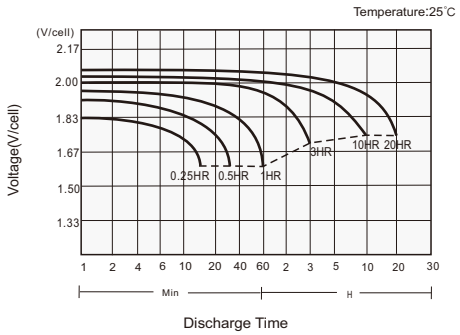
GENERAL FEATURES

- 5 years design life (25℃)
- Lead calcium alloy, sealed design, no watering required
- Puncture resistant micro-porous glass mat separators extend life
- Unique technology optimizes power capacity, cell consistency, and long-term reliability
- Designed for a wide range of applications

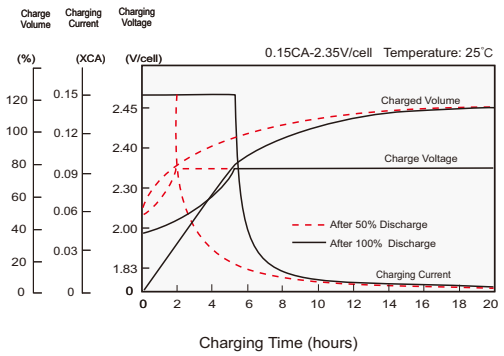
STANDARDS

- Compliance with IEC 60896 standards, EU Battery Directive
- UL,CE Approved
- Manufactured in Leoch®IATF 16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

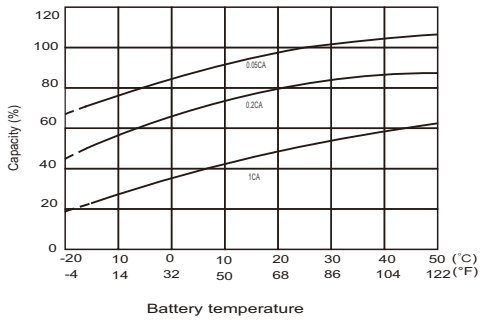
Discharge Characteristics



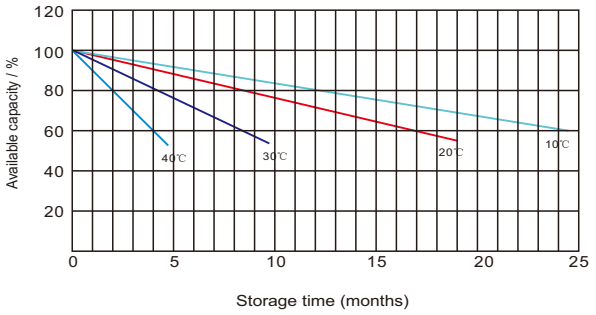
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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