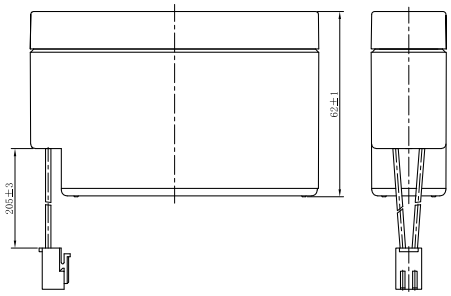
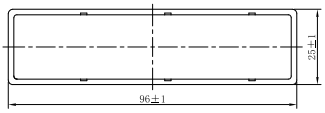
LP SERIES-GENERAL PURPOSE

LP12-0.8 (12V0.8Ah)

LEOCH BATTERY







CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Capacity (25℃)	C_{20},1.75V/cell	0.8Ah
Dimension	Length	96mm (3.78inches)
	Width	25mm (0.984inches)
	Container Height	62mm (2.44inches)
	Total Height	62mm (2.44inches)
Approx Weight		0.33kg (0.728lbs)
Terminal		/
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		22.4A
Internal Resistance (25℃)		Approx 245 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℃)		0.3C
Charge voltage (25℃)	Standby Use	Cycle Use
	2.25-2.30V/cell	2.35-2.45V/cell
Temp. Coeffcient	-3mV/cell/℃	-5mV/cell/℃
Effect of temp. to Capacity	40℃ (104°F)	103%
	25℃ (77°F)	100%
	0℃ (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	1.54	1.07	0.883	0.766	0.614	0.473	0.386	0.303	0.236	0.180	0.148	0.125	0.109	0.086	0.072	0.040
1.80V/cell	1.89	1.28	1.02	0.866	0.680	0.515	0.416	0.331	0.251	0.189	0.155	0.131	0.113	0.090	0.074	0.040
1.75V/cell	2.24	1.44	1.13	0.943	0.726	0.547	0.438	0.350	0.262	0.196	0.160	0.134	0.116	0.092	0.076	0.040
1.70V/cell	2.54	1.59	1.22	1.01	0.763	0.569	0.456	0.368	0.272	0.202	0.164	0.138	0.119	0.093	0.077	0.041
1.67V/cell	2.80	1.71	1.29	1.06	0.795	0.591	0.475	0.383	0.280	0.207	0.168	0.141	0.121	0.095	0.078	0.042
1.60V/cell	2.94	1.79	1.35	1.10	0.818	0.604	0.486	0.395	0.289	0.212	0.172	0.144	0.124	0.097	0.080	0.042

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	2.90	2.04	1.70	1.48	1.20	0.927	0.761	0.594	0.467	0.357	0.295	0.251	0.218	0.174	0.145	0.080
1.80V/cell	3.52	2.41	1.95	1.67	1.32	1.00	0.815	0.644	0.494	0.374	0.308	0.260	0.226	0.179	0.149	0.080
1.75V/cell	4.12	2.70	2.13	1.80	1.40	1.06	0.853	0.679	0.512	0.384	0.316	0.266	0.230	0.183	0.151	0.081
1.70V/cell	4.62	2.94	2.29	1.92	1.46	1.09	0.884	0.712	0.530	0.395	0.322	0.271	0.235	0.184	0.153	0.082
1.67V/cell	5.03	3.13	2.39	1.99	1.51	1.13	0.915	0.735	0.543	0.403	0.327	0.275	0.238	0.187	0.154	0.082
1.60V/cell	5.19	3.21	2.46	2.03	1.53	1.14	0.928	0.743	0.556	0.410	0.333	0.279	0.241	0.189	0.156	0.082

LP SERIES-GENERAL PURPOSE

LP12-0.8 (12V0.8Ah)

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

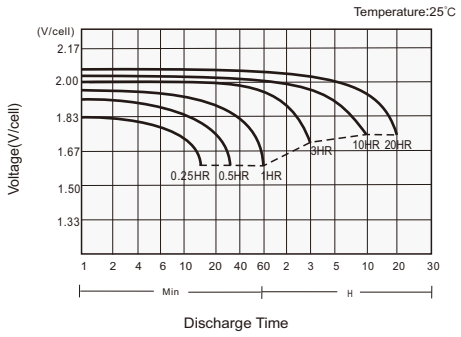
GENERAL FEATURES

- 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

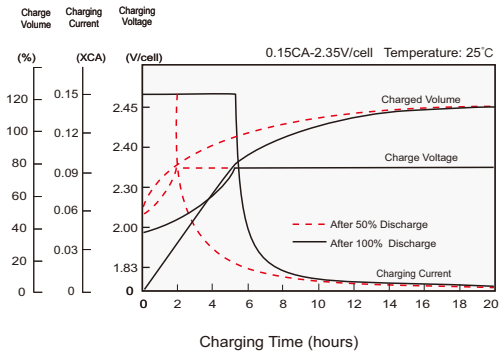
STANDARDS

- 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

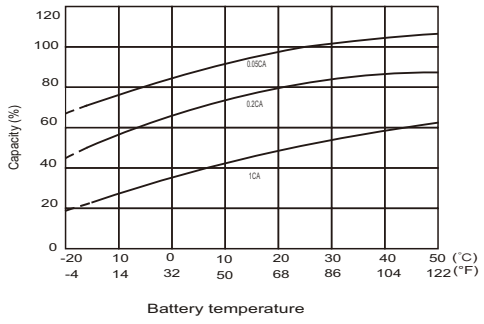
Discharge Characteristics



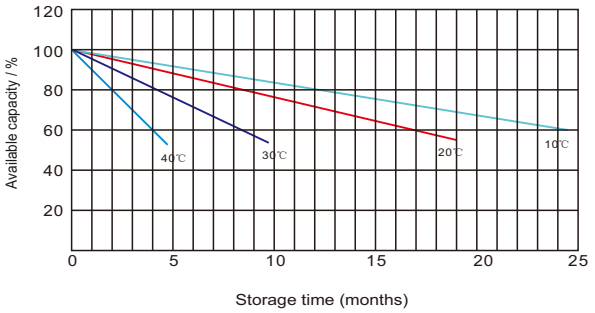
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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