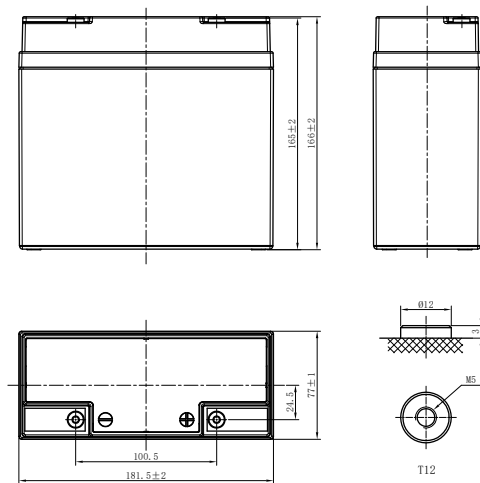


LP SERIES-GENERAL PURPOSE

LP12-22 (12V22Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C ₂₀ , 1.75V/cell	22Ah
Dimension	Length	181.5mm (7.15inches)
	Width	77mm (3.03inches)
	Container Height	166mm (6.54inches)
	Total Height	166mm (6.54inches)
Approx Weight	6.85kg (15.1lbs)	
Terminal	T12(M5)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	616A	
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. Coefficient	-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	65.5	48.2	36.9	30.1	22.6	15.8	12.6	9.33	7.69	5.37	4.23	3.52	3.01	2.36	2.02	1.08
1.80V/cell	74.4	53.0	40.2	32.5	24.2	16.6	13.7	9.77	7.80	5.44	4.28	3.57	3.05	2.39	2.05	1.09
1.75V/cell	82.1	56.8	42.5	34.2	25.2	17.3	13.9	9.92	7.93	5.52	4.35	3.61	3.09	2.43	2.07	1.10
1.70V/cell	89.5	60.4	44.7	35.8	26.2	17.9	14.2	10.1	8.05	5.61	4.41	3.65	3.13	2.46	2.10	1.11
1.67V/cell	93.2	61.9	45.7	36.3	26.5	18.1	14.3	10.2	8.13	5.65	4.44	3.69	3.15	2.47	2.11	1.12
1.60V/cell	101.5	65.8	47.6	37.7	27.4	18.6	14.6	10.4	8.29	5.76	4.53	3.76	3.20	2.51	2.15	1.13
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	139.9	99.3	73.2	62.0	47.0	31.9	25.6	18.1	14.4	10.5	8.32	6.95	5.96	4.70	3.84	2.16
1.80V/cell	157.9	108.6	79.4	66.7	50.2	33.7	27.7	19.0	14.6	10.7	8.43	7.04	6.02	4.74	3.88	2.18
1.75V/cell	173.0	115.6	83.4	69.8	52.2	34.9	28.2	19.2	14.7	10.8	8.53	7.11	6.09	4.80	3.92	2.20
1.70V/cell	187.5	122.2	87.3	72.6	54.0	36.0	28.5	19.4	14.9	10.9	8.63	7.20	6.17	4.85	3.97	2.22
1.67V/cell	194.6	125.0	88.9	73.6	54.7	36.3	28.8	19.6	15.0	11.1	8.70	7.25	6.20	4.89	3.99	2.23
1.60V/cell	210.0	131.5	92.2	76.0	56.0	37.1	29.4	20.1	15.4	11.3	8.84	7.35	6.30	4.95	4.06	2.27

LP SERIES-GENERAL PURPOSE

LP12-22 (12V22Ah)



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

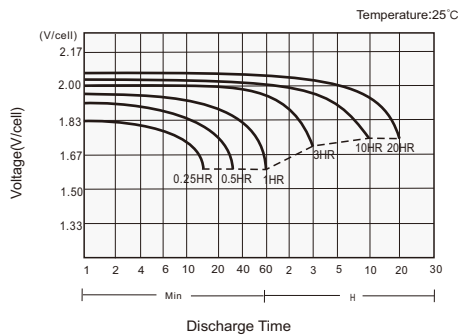
GENERAL FEATURES

- 5 years design life (25°C)
- 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

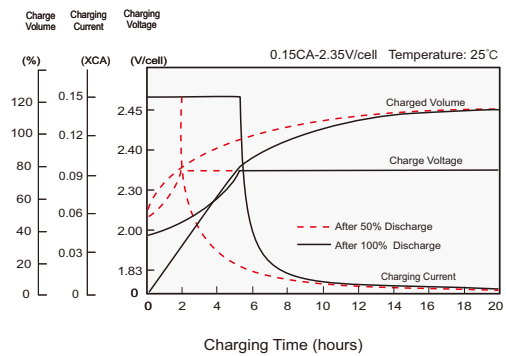
STANDARDS

- 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

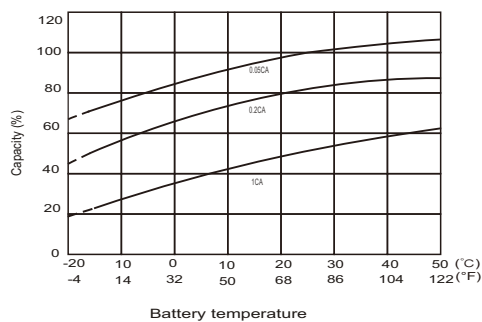
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

