FP Series-General Purpose FP12-9.0(12V9.0Ah)

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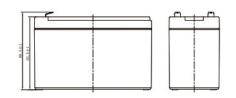
Specifications

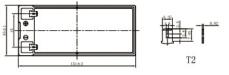
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Rated Voltage		12V					
Nominal Capacity	9.0Ah	(C ₂₀ ,1.75V/cell)					
Dimension	Length Width Container Height Total Height	151±2mm (5.95 inches 65±1mm (2.56 inches 93.5±1mm (3.68 inches 99.5±1mm (3.92 inches					
Approx Weight		2.52 Kg (5.56 lbs)					
Terminal		T1/T2					
Container Material		ABS					
Rated Capacity (25°C)	9.00 Ah 8.51 Ah 7.75 Ah 6.90 Ah 5.98 Ah	(20hr,0.450A,1.75V/cell) (10hr,0.851A,1.75V/cell) (5hr,1.55A,1.75V/cell) (3hr,2.30A,1.75V/cell) (1hr,5.98A,1.60V/cell)					
Max. Discharge Current		135A (5s)					
Internal Resistance (25°C)		Approx 17mΩ					
Operating Temp.Range	Discharge Charge Storage	-15 ~ 50°C (5 ~ 122°F) -20 ~ 40°C (-4 ~ 104°F) -15 ~ 40°C (5 ~ 104°F)					
Nominal Operating Temp. Range		25±3°C (77±5°F)					
Cycle Use	Initial Charging Current less tha 14.4V~15.0V at 25° C(77° F)Tem	0					
Standby Use	Initial Charging Current less than 2.70A. Voltage 13.5V~13.8V at 25° C(77° F)Temp. Coefficient -20mV/° C						
Effect of temp. to Capacity	40°C (104°F) 25°C (77°F) 0°C (32°F)	103% 100% 86%					
Self Discharge	LP series batteries may be stored at 25°C(77°F) and then a freshen For higher temperatures the time	ing charge is required.					



Layout





Constant Current Discharge (Amperes) at 25 C (77F)																
F.V/Time	5min	10m in	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	30.2	20.7	16.1	12.9	9.34	6.72	5.41	3.92	3.08	2.22	1.77	1.51	1.29	1.02	0.832	0.440
1.80V/cell	32.4	21.9	16.9	13.4	9.63	6.90	5.54	4.00	3.14	2.26	1.80	1.53	1.31	1.03	0.843	0.445
1.75V/cell	34.2	22.8	17.4	13.8	9.88	7.05	5.66	4.08	3.19	2.30	1.82	1.55	1.33	1.04	0.851	0.450
1.70V/cell	35.8	23.7	18.0	14.2	10.1	7.21	5.76	4.15	3.24	2.33	1.85	1.57	1.34	1.05	0.860	0.454
1.67V/cell	37.0	24.4	18.5	14.5	10.3	7.32	5.85	4.20	3.28	2.35	1.86	1.58	1.35	1.06	0.866	0.457
1.60V/cell	39.3	25.4	19.1	14.9	10.6	7.50	5.98	4.29	3.34	2.40	1.90	1.61	1.37	1.08	0.877	0.462

Constant Power Discharge (Watts/cell) at 25 C (77F)																
F.V/Time	5min	10min	15min	20min	30m in	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	57.1	39.4	30.8	24.8	18.1	13.0	10.5	7.66	6.03	4.37	3.49	2.98	2.55	2.02	1.65	0.880
1.80V/cell	60.8	41.4	32.1	25.7	18.5	13.3	10.8	7.79	6.13	4.43	3.53	3.02	2.59	2.04	1.67	0.890
1.75V/cell	63.3	42.8	33.0	26.2	18.9	13.6	10.9	7.91	6.22	4.49	3.58	3.05	2.62	2.06	1.69	0.900
1.70V/cell	65.7	44.2	33.9	26.9	19.3	13.8	11.1	8.03	6.30	4.55	3.62	3.09	2.64	2.08	1.71	0.907
1.67V/cell	67.4	45.2	34.6	27.4	19.6	14.0	11.2	8.11	6.36	4.59	3.65	3.11	2.67	2.10	1.72	0.914
1.60V/cell	70.1	46.5	35.6	28.0	20.0	14.3	11.4	8.3	6.46	4.66	3.71	3.15	2.70	2.13	1.74	0.924

[⁴7]

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Applications

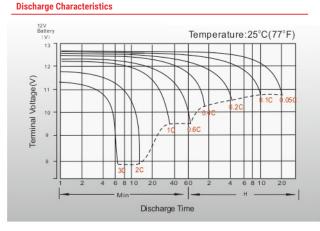
- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- · DC power supply
- Auto control system

General features

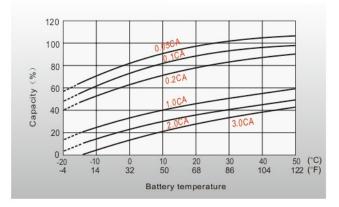
- 5 years design life(25℃)
- Special exhaust structure and sealing technology, safe and reliable, flexible installation, convenient maintenance
- PbCaSn alloy for plate grids: less gassing, less self-discharging
- High quality AGM separator: extend cycle life and prevent micro short circuit
- · High purity raw material: ensure low self discharge rate

Standards

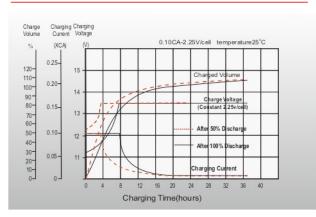
- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch®IATF16949, ISO45001,ISO 9001 and ISO 14001 certified production facilities



Temperature Effects in Relation to Battery Capacity



Float Charging Characteristics



Effect of Temperature on Long Term Float Life

