



General Purpose WPP1270(12V7.0Ah)



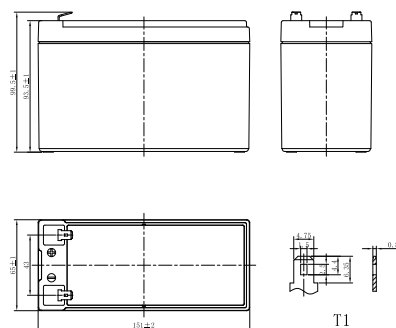
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Specifications

Rated Voltage	12V	
Nominal Capacity	7.0Ah	(C ₂₀ , 1.75V/cell)
Dimension	Length	151±2mm (5.95 inches)
	Width	65±1mm (2.56 inches)
	Container Height	93.5±1mm (3.68 inches)
	Total Height	99.5±1mm (3.92 inches)
Approx Weight	1.81 Kg (3.99 lbs)	
Terminal	T1	
Container Material	ABS	
Rated Capacity (25°C)	7.00 Ah	(20hr, 0.350A, 1.75V/cell)
	6.00 Ah	(10hr, 0.600A, 1.75V/cell)
	5.25 Ah	(5hr, 1.05A, 1.75V/cell)
	4.59 Ah	(3hr, 1.53A, 1.75V/cell)
	3.94 Ah	(1hr, 3.94A, 1.60V/cell)
Max. Discharge Current	90A (5s)	
Internal Resistance (25°C)	Approx 27mΩ	
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)	
Cycle Use	Initial Charging Current less than 2.1A. Voltage	
	14.1V~14.7V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	Initial Charging Current less than 2.1A. Voltage	
	13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	Batteries may be stored for 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.	



Layout



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	16.7	12.3	9.93	8.10	6.02	4.42	3.61	2.64	2.07	1.49	1.19	1.03	0.888	0.713	0.586	0.343
1.80V/cell	18.1	12.9	10.3	8.35	6.18	4.51	3.68	2.68	2.10	1.51	1.21	1.04	0.900	0.722	0.593	0.347
1.75V/cell	19.6	13.6	10.7	8.60	6.32	4.60	3.75	2.73	2.13	1.53	1.23	1.05	0.911	0.730	0.600	0.350
1.70V/cell	21.1	14.2	11.1	8.86	6.47	4.69	3.81	2.77	2.17	1.55	1.24	1.07	0.924	0.739	0.607	0.354
1.67V/cell	21.9	14.6	11.3	9.01	6.56	4.74	3.85	2.80	2.19	1.57	1.25	1.08	0.930	0.745	0.612	0.356
1.60V/cell	23.9	15.5	11.8	9.36	6.76	4.87	3.94	2.86	2.23	1.60	1.28	1.10	0.946	0.757	0.621	0.361

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	31.8	23.5	19.1	15.6	11.6	8.58	7.03	5.15	4.05	2.92	2.35	2.03	1.76	1.41	1.16	0.686
1.80V/cell	34.3	24.6	19.7	16.0	11.9	8.72	7.14	5.22	4.10	2.96	2.38	2.05	1.78	1.43	1.18	0.693
1.75V/cell	36.8	25.7	20.3	16.4	12.1	8.86	7.24	5.29	4.15	3.00	2.41	2.08	1.80	1.45	1.19	0.700
1.70V/cell	39.3	26.7	20.9	16.8	12.3	8.99	7.34	5.37	4.21	3.03	2.44	2.10	1.82	1.46	1.20	0.707
1.67V/cell	40.7	27.3	21.3	17.1	12.5	9.07	7.40	5.41	4.24	3.06	2.46	2.11	1.83	1.47	1.21	0.712
1.60V/cell	43.9	28.8	22.1	17.6	12.8	9.26	7.54	5.50	4.31	3.11	2.50	2.15	1.86	1.49	1.23	0.722



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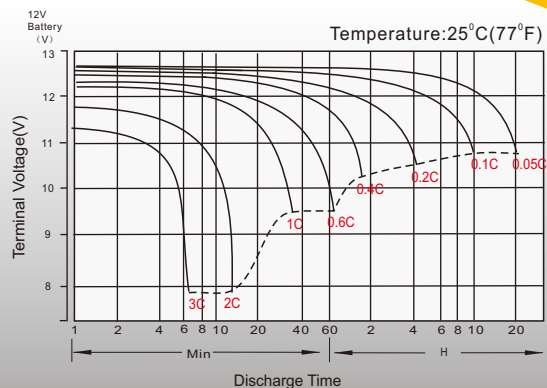
Applications

- 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

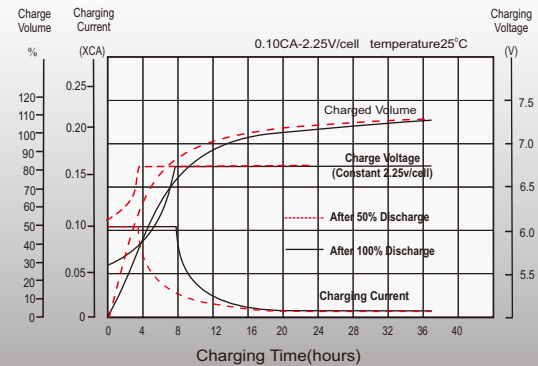
General Features

- 5 years design life(25°C)
- 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

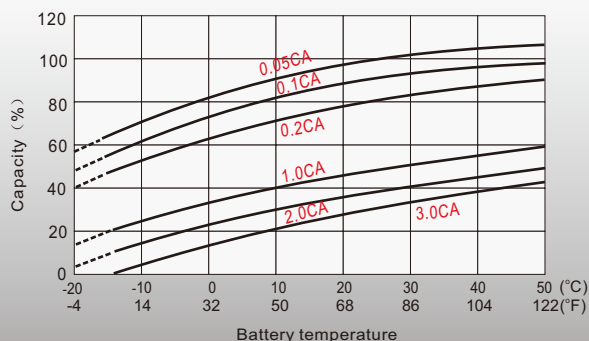
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Float Service Life

