



# General Purpose WPP1290(12V9.0Ah)

# WPP

OWER

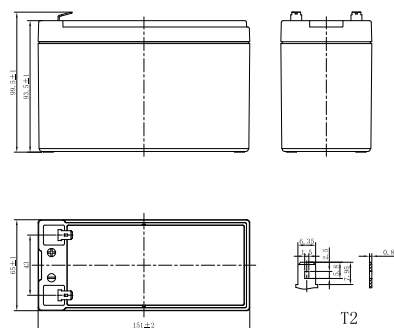
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## Specifications

Rated Voltage	12V	
Nominal Capacity	9.0Ah	(C <sub>20</sub> , 1.80V/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	2.39 Kg (5.27 lbs)	
Terminal	T2	
Container Material	ABS	
Rated Capacity (25°C)	9.00 Ah	(20hr, 0.450A, 1.75V/cell)
	8.02 Ah	(10hr, 0.802A, 1.75V/cell)
	6.95 Ah	(5hr, 1.39A, 1.75V/cell)
	6.12 Ah	(3hr, 2.04A, 1.75V/cell)
	5.10 Ah	(1hr, 5.10A, 1.60V/cell)
Max. Discharge Current	128A (5s)	
Internal Resistance (25°C)	Approx 18mΩ	
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 2.7A. Voltage	
	14.1V~14.7V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	Initial Charging Current less than 2.7A. 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	18.6	13.2	11.1	9.42	7.04	5.23	4.22	3.09	2.52	1.87	1.52	1.29	1.12	0.884	0.749	0.431
1.80V/cell	22.2	15.2	12.4	10.4	7.70	5.63	4.54	3.31	2.69	1.99	1.60	1.36	1.17	0.932	0.789	0.440
1.75V/cell	24.8	16.5	13.4	11.0	8.03	5.84	4.70	3.41	2.76	2.04	1.63	1.39	1.19	0.949	0.802	0.450
1.70V/cell	27.1	17.9	14.1	11.5	8.33	6.04	4.84	3.51	2.84	2.08	1.67	1.41	1.21	0.962	0.812	0.455
1.67V/cell	29.4	18.8	14.6	11.9	8.61	6.23	4.99	3.59	2.89	2.13	1.69	1.44	1.23	0.973	0.821	0.460
1.60V/cell	31.0	19.6	15.1	12.2	8.85	6.38	5.10	3.67	2.96	2.16	1.73	1.46	1.25	0.983	0.828	0.463

## 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	35.1	25.1	21.3	18.2	13.8	10.3	8.32	6.09	4.97	3.72	3.02	2.59	2.25	1.78	1.51	0.870
1.80V/cell	41.4	28.7	23.7	20.0	15.0	11.0	8.91	6.51	5.31	3.94	3.19	2.72	2.36	1.87	1.58	0.886
1.75V/cell	46.0	31.1	25.4	21.1	15.5	11.4	9.23	6.70	5.44	4.01	3.23	2.75	2.38	1.89	1.60	0.901
1.70V/cell	49.3	33.1	26.3	21.8	16.0	11.7	9.40	6.83	5.54	4.09	3.27	2.77	2.41	1.90	1.61	0.904
1.67V/cell	52.7	34.4	27.0	22.2	16.3	11.9	9.60	6.93	5.60	4.14	3.30	2.80	2.42	1.91	1.62	0.906
1.60V/cell	54.3	34.9	27.5	22.4	16.5	12.1	9.70	7.02	5.68	4.17	3.34	2.83	2.44	1.92	1.63	0.909



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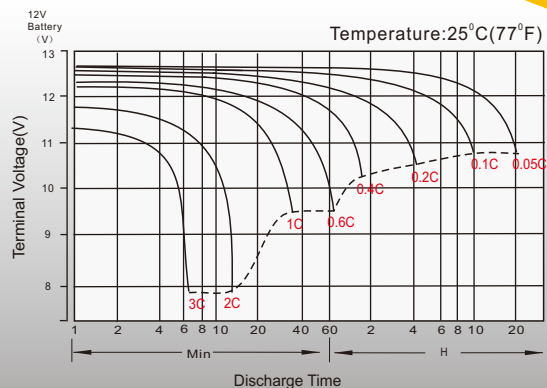
## Applications

- 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

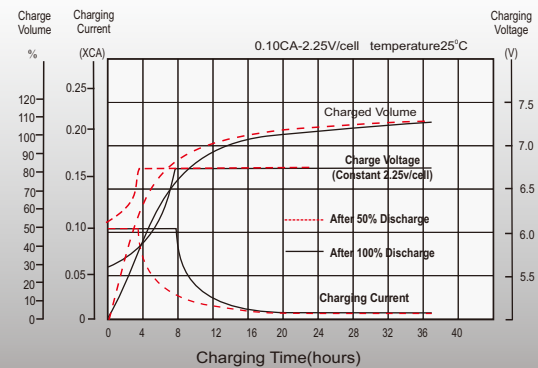
## General Features

- 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

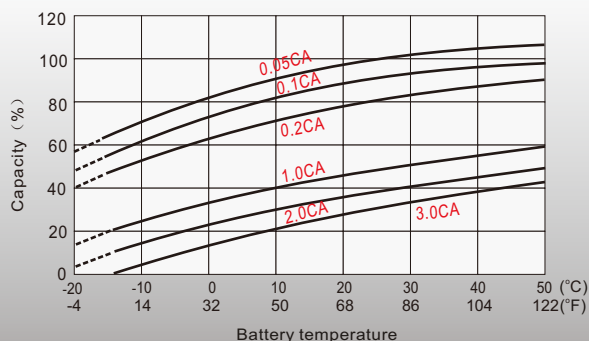
## Discharge Characteristics



## Float Charging Characteristics



## Temperature Effects in Relation to Battery Capacity



## Float Service Life

