



# RS PRO Sealed Lead-Acid Battery Cyclic Products

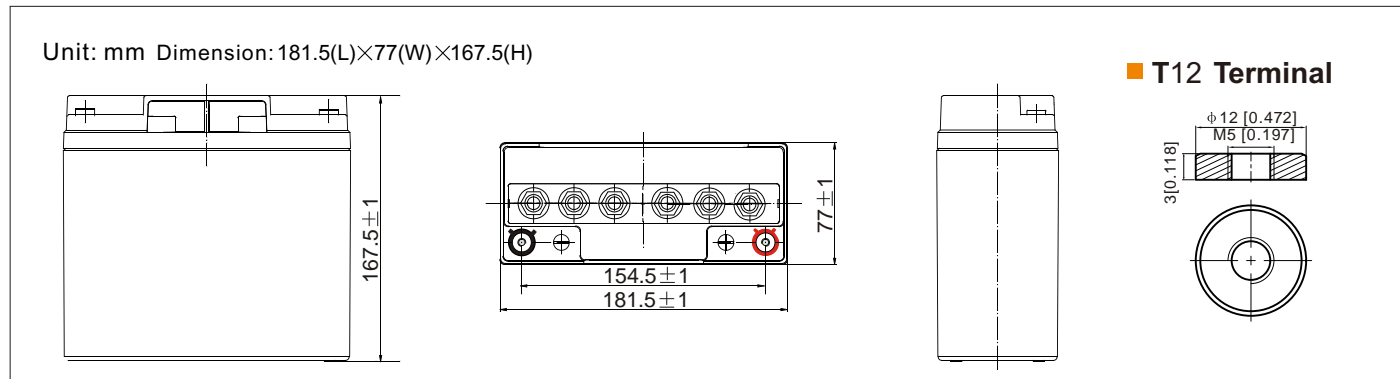
RS Stock No: 883-8844

## Specification

Rated Voltage	12V
Normal Capacity	17.0 Ah (C <sub>20</sub> , 1.80V/cell)
Approx Weight	5.80 kg
Max. Discharge Current	204A (5 s)
Internal Resistance	Approx 18.0 mΩ
Operating Temp. Range	Discharge : -15~50°C (5~122°F) Charge : 0~40°C (32~104°F) Storage : -15~40°C (5~104°F)
Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)
Float charging Voltage	13.5 to 13.8V DC/unit Average at 25°C. Coefficient -20mV/°C
Recommended Maximum Charging Current Limit	4.25 A
Equalization and Cycle Service	14.4 to 15.0V DC/unit Average at 25°C. Coefficient -30mV/°C
Terminal	T12
Container Material	A.B.S. (UL94-HB) conform
Self Discharge	The batteries can 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.



## Dimensions



### Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	14.4	11.3	8.61	7.21	4.57	3.49	2.89	2.49	2.15	1.90	1.72	1.57	1.48	0.82
1.80V/cell	16.5	12.6	9.50	7.96	4.95	3.73	3.06	2.62	2.26	1.99	1.80	1.65	1.55	0.85
1.75V/cell	18.5	13.9	10.3	8.52	5.24	3.94	3.20	2.72	2.34	2.06	1.86	1.70	1.58	0.87
1.70V/cell	19.9	14.9	10.9	9.01	5.56	4.11	3.31	2.81	2.42	2.13	1.91	1.75	1.62	0.88
1.65V/cell	20.8	15.4	11.3	9.35	5.70	4.24	3.39	2.86	2.46	2.16	1.94	1.77	1.64	0.89
1.60V/cell	22.5	16.5	12.1	9.93	5.93	4.41	3.52	2.95	2.52	2.21	1.98	1.81	1.67	0.90

### Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	27.5	21.8	16.7	14.0	8.94	6.83	5.68	4.92	4.26	3.78	3.42	3.13	2.96	1.63
1.80V/cell	31.1	24.1	18.3	15.4	9.63	7.29	5.99	5.15	4.46	3.95	3.57	3.28	3.09	1.69
1.75V/cell	34.6	26.2	19.6	16.4	10.2	7.68	6.26	5.33	4.60	4.07	3.68	3.37	3.14	1.73
1.70V/cell	36.9	27.9	20.7	17.3	10.7	7.98	6.45	5.48	4.75	4.20	3.78	3.46	3.21	1.75
1.65V/cell	37.9	28.6	21.3	17.8	11.0	8.20	6.59	5.58	4.82	4.25	3.83	3.50	3.25	1.76
1.60V/cell	40.6	30.4	22.7	18.8	11.3	8.49	6.81	5.74	4.92	4.33	3.89	3.57	3.31	1.78

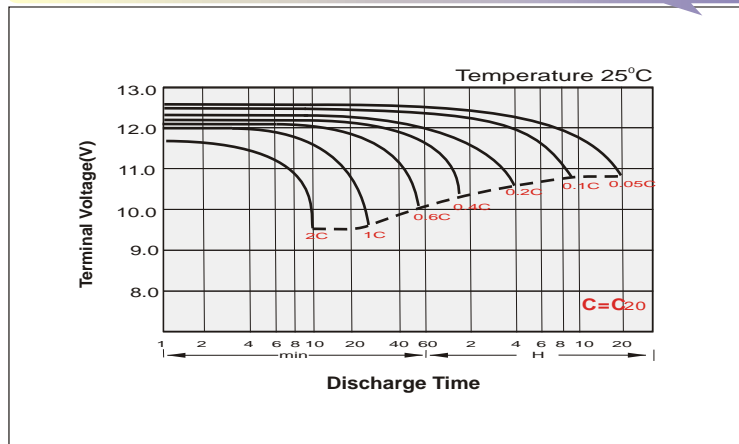
## Applications

- ◆ Telecommunications
- ◆ Solar system
- ◆ Wind power system
- ◆ Wheelchair
- ◆ Floor cleaning machines
- ◆ Golf trolley
- ◆ Boats

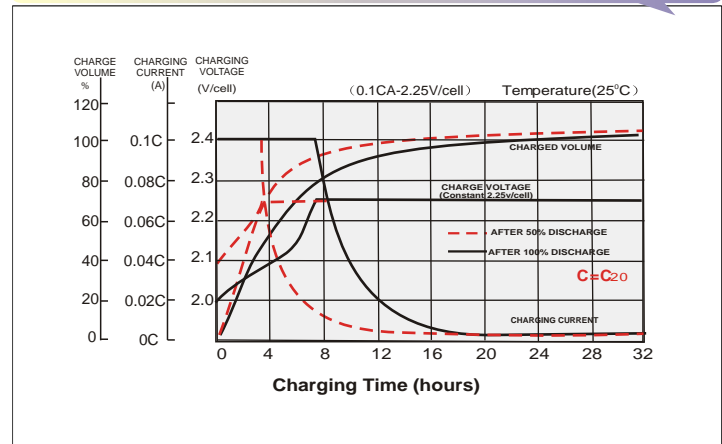
## General Features

- ◆ Long discharge time
- ◆ Suitable for standby power and energy storage power use
- ◆ Special plate design, long cycle lifetime
- ◆ Using special lead-calcium alloy to boost up the grid anti-corrosive battery using lifetime
- ◆ Special separator to boost up the battery internal performance
- ◆ High thermal capacity, reduce the risk of thermal runaway and drying up, can be used in poor environment
- ◆ High gas recombination efficiency

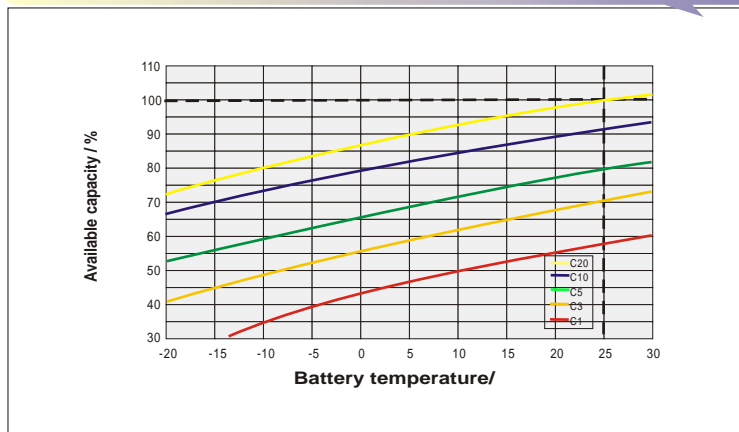
### Discharge Characteristics



### Float Charging Characteristics



### Temperature Effects In Relation To Battery Capacity



### Float Service Life

