

## Front Terminal VRLA Battery

## FT12-180

**CSPower Front Terminal lead acid battery** is mainly used in the area of communication, which is novel in design, reasonable in structure and occupying the leading position in the same industry of the world. This AGM battery for telecom industry comes with slim shape design and front terminal connection. Thus, easy installation and maintenance can be ensured and space can be saved. Radial grid design plus tight assembly technology assures this rechargeable battery prominent high rate discharge performance.

Our front access battery features unique design which makes it sure that the electrolyte volume can be hardly reduced during use and addition of water is not necessary in its service life. Due to unique corrosion resistant grid alloy, the power storage cell can serve for more than 8-10years in standby current at a temperature of 25 degree.

### GENERAL FEATURES

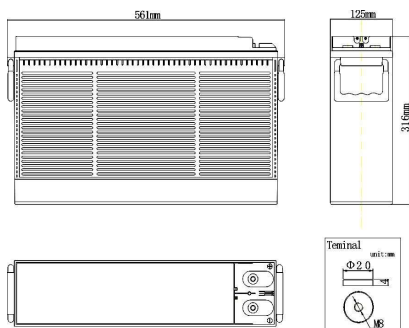
- Advanced AGM technology, and Maintenance-free operation;
- Front access terminal with standard width for 19" and 23" ETSI racks;
- Fire resistance ABS container;
- Long float service life 10years;
- Low self discharge <3%.

### APPLICATIONS

- Telecom system
- UPS systems
- Communication Equipment
- Solar & Wind
- Emergency Power Systems

### DIMENSIONS & WEIGHT

Length(mm)	560±1
Width(mm)	125±1
Height(mm)	316±1
Total Height(mm)	316±1
Weight(kg)	55.0±3%



### TECHNICAL SPECIFICATIONS

Nominal Voltage		12V(6 cells per unit)
Design Floating Life @25°C		10 Years
Nominal Capacity @25°C(10 hour rate@18.0A,10.8V)		180Ah
Capacity @25°C	20hour rate (9.54A,10.8V)	190.8Ah
	5 hour rate (31.7A,10.5V)	158.5Ah
	1 hour rate (114.8A,9.6V)	114.8Ah
Internal Resistance	Full Charged Battery@25°C	≤3.6mΩ
Ambient Temperature	Discharge	-15°C~45°C
	Charge	-15°C~45°C
	Storage	-15°C~45°C
Max.Discharge Current@25°C		1800A(5s)
Capacity affected by Temperature (10 hour )	40°C	105%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-Discharge@25°C per Month		3%
Charge (Constant Voltage) @25°C	Standby Use	Initial Charging Current Less than 45A Voltage 13.6-13.8V
	Cycle Use	Initial Charging Current Less than 45A Voltage 14.4-14.9V

<b>12V</b> Voltage	<b>180Ah</b> Capacity	<b>AGM</b> Technology	<b>Front</b> Terminal
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### COMPLIED STANDARDS

IEC 60896-21/22	JIS C8704
YD/T799	BS6290 part4
GB/T 19638	CE

### BATTERY DISCHARGE TABEL

#### Discharge Constant Current per Cell (Amperes at 25°C)

F.V/Time	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	418.5	324.9	194.9	144.9	114.8	67.5	49.7	33.5	22.9	18.9	9.99
1.65V	387.2	306.9	188.5	139.3	111.4	65.3	48.1	32.9	22.7	18.5	9.90
1.70V	359.1	288.2	183.2	134.3	107.1	63.5	46.8	32.2	22.3	18.4	9.79
1.75V	335.3	270.0	173.7	128.3	102.8	61.9	45.7	31.7	22.0	18.2	9.70
1.80V	301.7	253.3	167.6	123.7	99.2	59.6	44.3	31.0	21.6	18.0	9.54

#### Discharge Constant Power per Cell (Watts at 25°C)

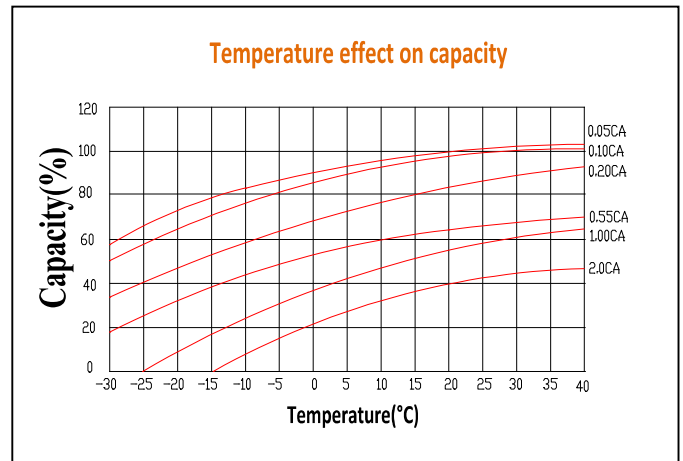
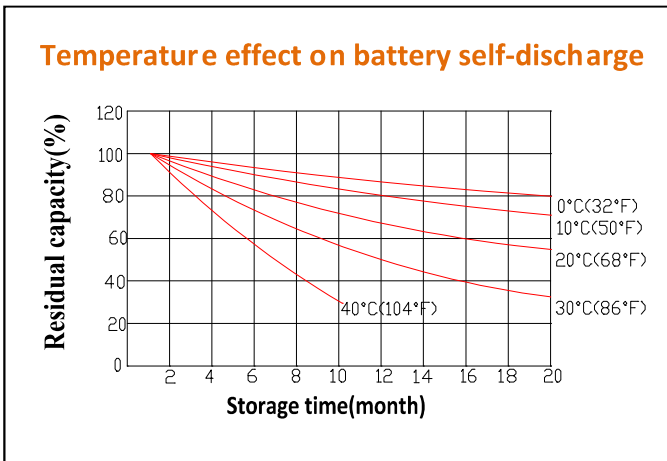
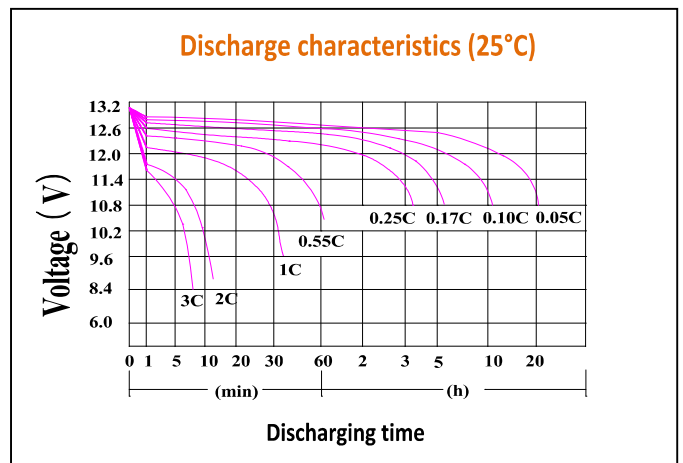
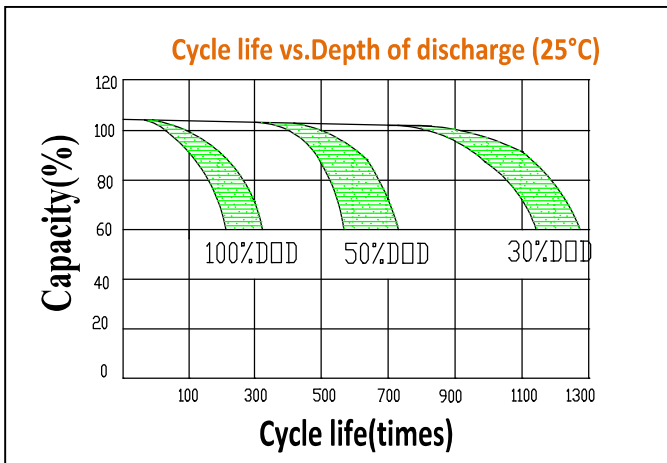
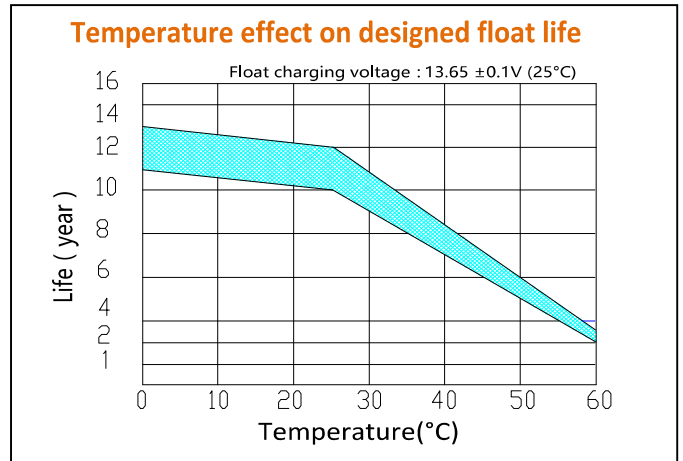
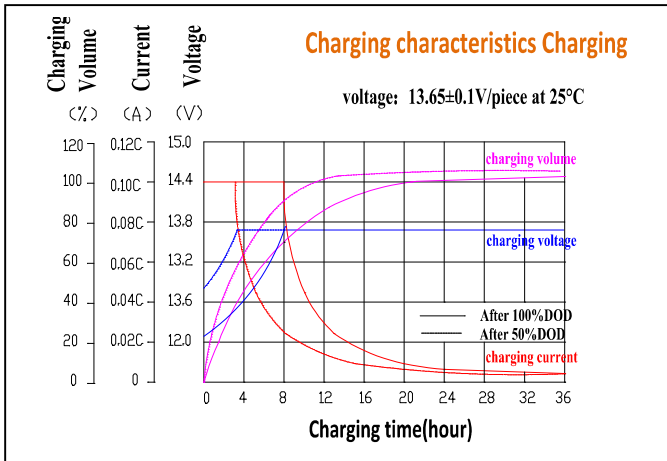
F.V/Time	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	752.8	621.2	380.0	275.2	220.3	128.0	94.9	64.6	44.6	36.9	19.3
1.65V	704.5	594.4	363.4	265.9	214.4	124.6	92.3	63.5	44.3	36.5	19.1
1.70V	659.7	553.9	348.5	257.4	207.0	121.7	90.2	62.6	43.7	36.2	18.9
1.75V	620.8	519.7	331.7	247.1	199.4	118.8	88.4	61.7	43.2	35.8	18.7
1.80V	562.0	487.8	318.2	238.9	193.0	114.8	85.9	60.5	42.7	35.6	18.5

**Note:** The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact **CSPower** for the latest information.

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PERFORMANCE CHARACTERISTICS



BATTERY CONSTRUCTION

Component	Positive plate	Negative plate	Container & Cover	Safety valve	Terminal	Separator	Electrolyte	Pillar seal
Features	Thick high Sn low Ca grid with special paste	Balanced Pb-Ca grid for improved recombination efficiency	Fire resistance ABS (UL94-V0 optional)	Flame Si-Rubber and aging resistance	Female Copper Insert M6(torque :3~4N.m)	Advanced AGM separator for high pressure cell design	Dilute high purity sulfuric acid	Two layers epoxy resin seal

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