

Front Terminal VRLA Battery

FT12-160

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.

12V Voltage	160Ah Capacity	AGM Technology	Front Terminal
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COMPLIED STANDARDS

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

GENERAL FEATURES

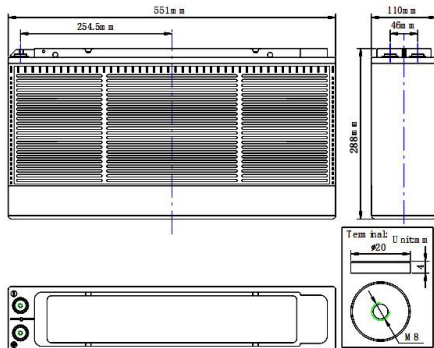
- Advanced AGM technology, and Maintenance-free operation;
- Front access terminal with standard width for 19" and 23" ETSI racks;
- Fire resistance ABS container;
- Long float service life 10years;
- Low self discharge <3%.

APPLICATIONS

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

DIMENSIONS & WEIGHT

Length(mm)	551±1
Width(mm)	110±1
Height(mm)	288±1
Total Height(mm)	288±1
Weight(kg)	44.5±3%



TECHNICAL SPECIFICATIONS

Nominal Voltage		12V(6 cells per unit)
Design Floating Life @25°C		10 Years
Nominal Capacity @25°C(10 hour rate@16.0A,10.8V)		160Ah
Capacity @25°C	20hour rate (8.48A,10.8V)	169.6Ah
	5 hour rate (28.2A,10.5V)	141.0Ah
	1 hour rate (102.1A,9.6V)	102.1Ah
Internal Resistance	Full Charged Battery@25°C	≤3.3mΩ
Ambient Temperature	Discharge	-15°C~45°C
	Charge	-15°C~45°C
	Storage	-15°C~45°C
Max.Discharge Current@25°C		960A(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 40A Voltage 13.6-13.8V
	Cycle Use	Initial Charging Current Less than 40A Voltage 14.4-14.9V

BATTERY DISCHARGE TABLE

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	372.0	288.8	173.3	128.8	102.1	60.0	44.2	29.8	20.3	16.8	8.88
1.65V	344.2	272.8	167.5	123.8	99.0	58.1	42.7	29.3	20.2	16.5	8.80
1.70V	319.2	256.2	162.9	119.4	95.2	56.5	41.6	28.6	19.8	16.3	8.70
1.75V	298.1	240.0	154.4	114.1	91.4	55.0	40.6	28.2	19.5	16.2	8.62
1.80V	268.2	225.1	149.0	109.9	88.2	53.0	39.4	27.5	19.2	16.0	8.48

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

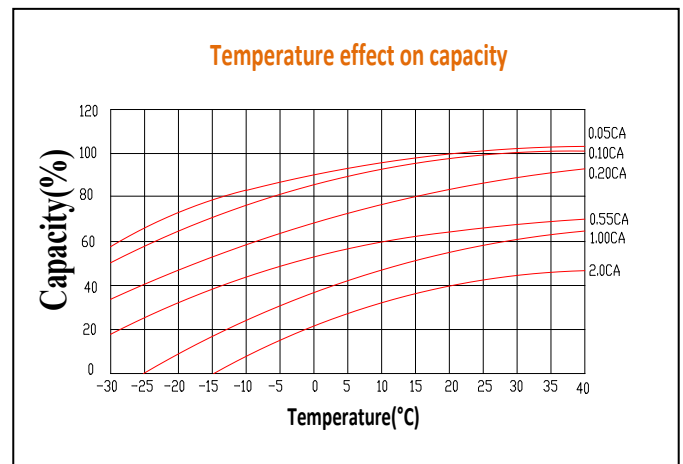
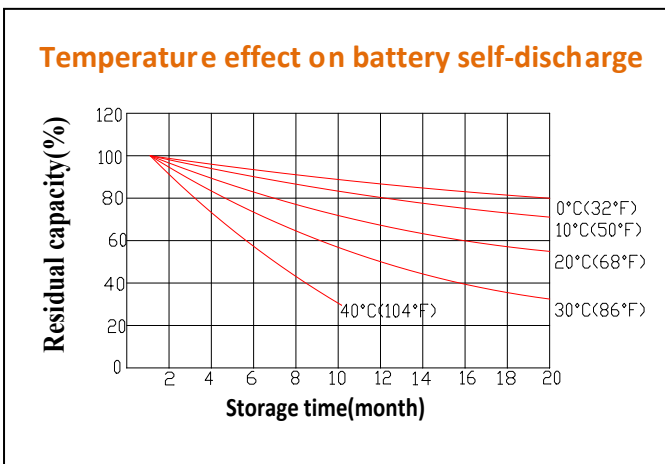
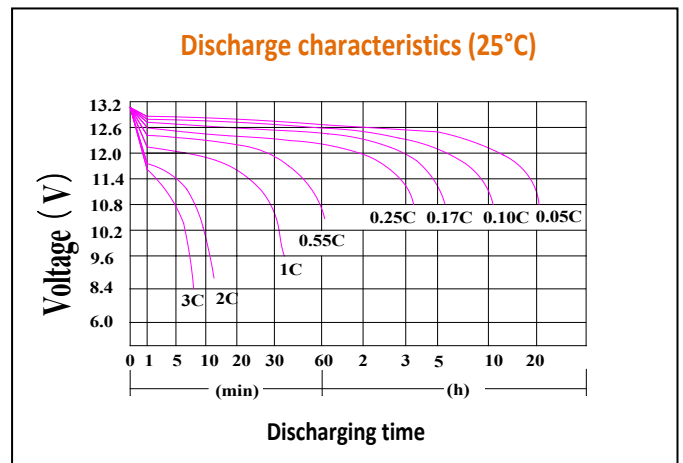
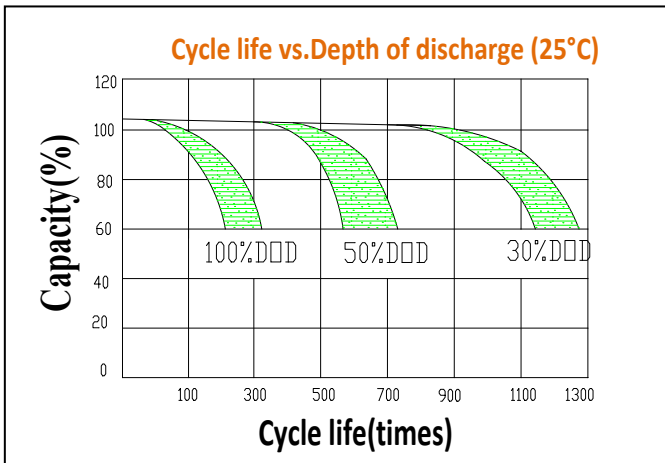
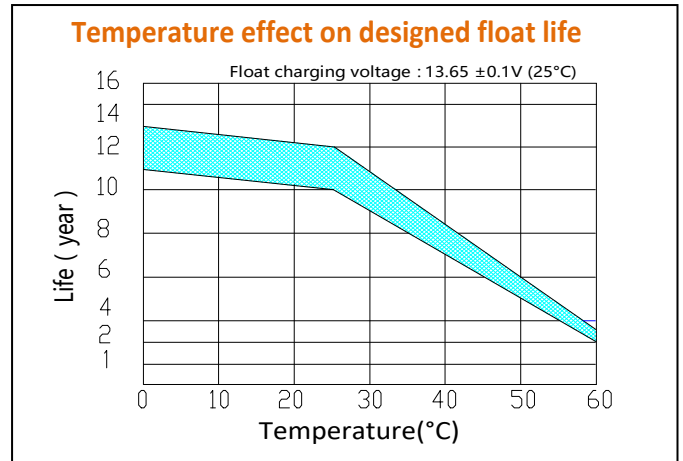
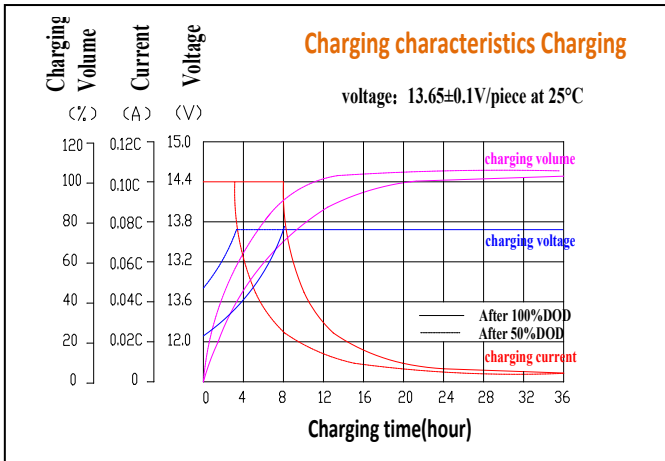
F.V/Time	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	669.1	552.2	337.8	244.6	195.8	113.8	84.3	57.4	39.7	32.8	17.1
1.65V	626.2	528.3	323.0	236.3	190.6	110.7	82.1	56.5	39.4	32.5	17.0
1.70V	586.4	492.3	309.8	228.8	184.0	108.2	80.2	55.7	38.9	32.2	16.8
1.75V	551.8	461.9	294.9	219.7	177.3	105.6	78.6	54.9	38.4	31.8	16.6
1.80V	499.5	433.6	282.9	212.3	171.5	102.1	76.3	53.8	37.9	31.7	16.5

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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