

5 USA STARS ECOLOGIC BATTERY INC

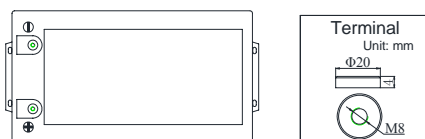
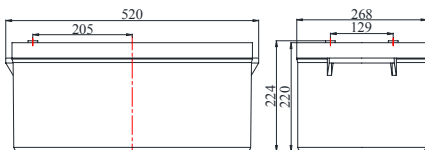
QUARTZ SEALED LEAD CRYSTAL BATTERY LC250-12 12V 250AH

GENERAL FEATURES

- Environmentally friendly
- Able to operate at 60°C
- Integrated design to ensure the best uniformity and reliability
- Long life and high stability under high temp. environment (no air-con needed)
- Use super-C additives: Deep discharge recovery capability

DIMENSIONS & WEIGHT

Length(mm)	520±1
Width(mm)	268±1
Height(mm)	220±1
Total Height(mm)	225±1
Weight(kg)	70.2±3%



COMPLIED STANDARDS

IEC 60896-21/22	JIS C8704
YD/T799	BS6290 part4
GB/T 19638	UL 1989

APPLICATIONS

- Solar & Wind energy system
- BTS Stations
- UPS system
- Telecom systems
- Wheel chair & Golf Car
- Marine Equipment
- Railway Systems



TECHNICAL SPECIFICATIONS

Nominal Voltage		12V(6 cells per unit)
Battery useful life @25°C		20 Years
Nominal Capacity @25°C(10 hour rate@25.00A,10.80V)		250Ah
Capacity @25°C	20 hour rate (13.38A,10.5V)	267.6Ah
	5 hour rate (44.0A,10.5V)	220.0Ah
	1 hour rate (159.5A,9.6V)	159.5Ah
Internal Resistance	Full Charged Battery@25°C	≤2.8mΩ
Ambient Temperature	Discharge	-30°C~60°C
	Charge	-30°C~60°C
	Storage	-30°C~60°C
Max.Discharge Current@25°C		2000A(5s)
Capacity affected by Temperature (10 hr Capacity)	40°C	108%
	25°C	100%
	0°C	90%
	-15°C	70%
Self-Discharge@25°C per Month		3%
Charge (Constant Voltage) @25°C	Standby Use	Initial Charging Current Less than 50A Voltage 13.6-13.8V
	Cycle Use	Initial Charging Current Less than 50A Voltage 14.4-14.9V

BATTERY DISCHARGE TABLE

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

F.V/Time	15min	30min	45min	1h	2h	3h	5h	6h	8h	10h	20h
1.60V	451.3	265.8	201.3	159.5	93.8	69.0	46.5	40.5	31.8	26.3	13.88
1.67V	426.3	251.8	193.5	154.8	90.8	66.8	45.8	39.8	31.5	25.8	13.75
1.70V	400.3	244.5	186.5	148.8	88.3	65.0	44.8	39.0	31.0	25.5	13.55
1.75V	375.0	233.8	178.3	142.8	86.0	63.5	44.0	38.3	30.5	25.3	13.38
1.80V	351.8	225.3	171.8	137.8	82.8	61.5	43.0	37.5	30.0	25.0	13.25

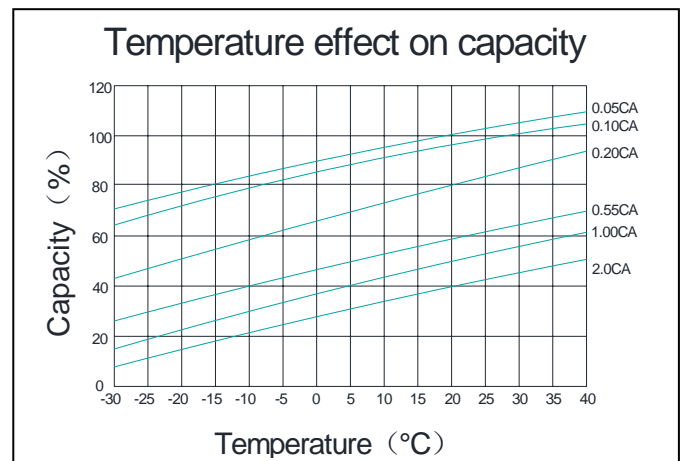
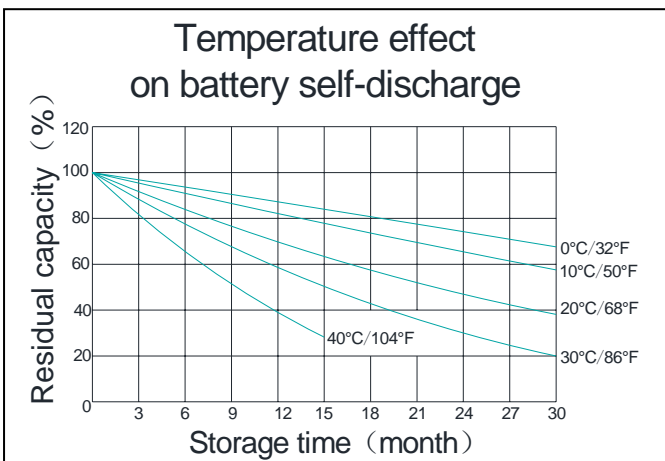
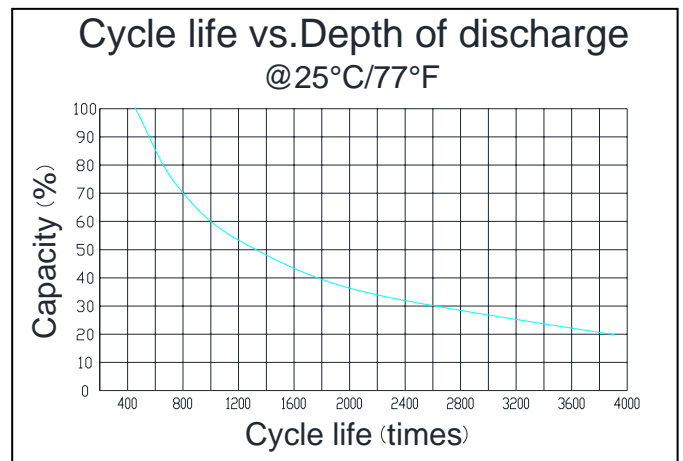
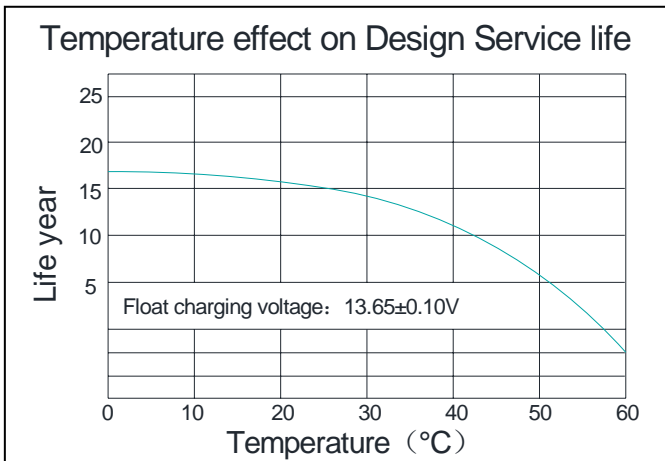
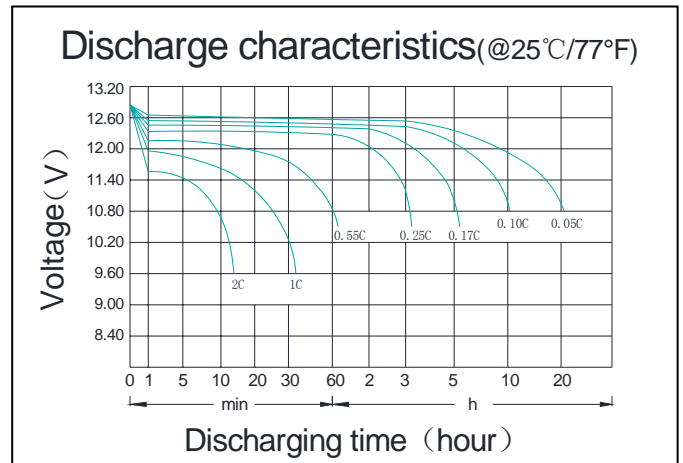
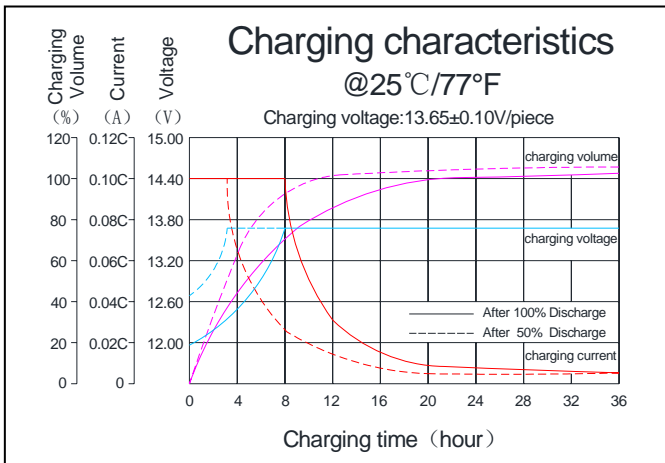
Discharge Constant Power per Cell (Watts at 25°C)

F.V/Time	15min	30min	45min	1h	2h	3h	5h	6h	8h	10h	20h
1.60V	862.8	527.8	382.3	306.0	177.8	131.8	89.8	78.3	62.0	51.3	27.4
1.67V	825.5	494.8	369.3	297.8	173.0	128.3	88.3	77.0	61.5	50.8	27.2
1.70V	769.3	484.0	357.5	287.5	169.0	125.3	87.0	76.0	60.8	50.3	26.9
1.75V	721.8	460.8	343.3	277.0	165.0	122.8	85.8	74.8	60.0	49.8	26.6
1.80V	677.5	442.0	331.8	268.0	159.5	119.3	84.0	73.5	59.3	49.5	26.4

5 USA STARS ECOLOGIC BATTERY INC

QUARTZ SEALED LEAD CRYSTAL BATTERY LC250-12 12V 250AH

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	ABS (UL94-V0 optional)	Flame Si-Rubbeand aging resistancer	Female Copper Insert M8(torque:7~9N.m)	Advanced AGM separator for high pressure cell design	Dilute high purity sulphuric acid with fumed Silica gel	Two layers epoxy resin seal