

VRLA AGM BATTERY

BP12-180(12V180Ah)

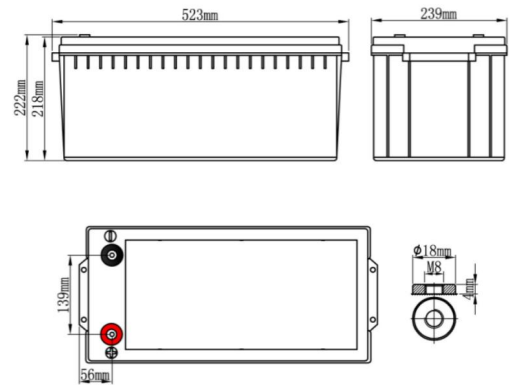
BVBA
BRAVA BATTERY

Specifications

Rated Voltage	12V	
Nominal Capacity	182Ah	(C10 , 1.8V/cell)
Dimension	Length	523±2mm (20.92inches)
	Width	239±2mm (9.56 inches)
	Container Height	218±2mm (8.72 inches)
	Total Height	222±2mm (8.88 inches)
Weight	Approx.56.5 Kg (124.3 lbs)	
Terminal	F12(M8)	
Container Material	A.B.S. UL94-HB, UL94-V0 Optional	
Rated Capacity(25°C)	190.8.00 Ah	(20hr, 1.75V/cell)
	182.00 Ah	(10hr, 1.8V/cell)
	154.5.00 Ah	(5hr, 1.75V/cell)
	136.50 Ah	(3hr, 1.75V/cell)
Max. Discharge Current	1800A (5s)	
Internal Resistance(25°C)	Approx 3.6mΩ	
Operating Temp. Range	Discharge	-40 ~ 60°C (-4 ~ 140°F)
	Charge	-20 ~ 50°C (14 ~ 122°F)
	Storage	-40 ~ 60°C (-4 ~ 140°F)
Nominal Operating Temp.Range	25±5°C (77±5°F)	
Cycle Use	Initial Charging Current less than 45A. Voltage 14.1V~14.4V at 25 ° C (77°F)Temp. Coefficient -4mV/ °C	
Standby Use	Initial Charging Current less than 45A. Voltage 13.6V~13.8V at 25 ° C (77°F)Temp. Coefficient -3mV/°C	
Effect of temp. to Capacity	40° C (104°F)	103%
	25°C (77°F)	100%
	0° C (32°F)	86%
Self Discharge	BPG series 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 Data Sheet (@25°C) Unit: A											
End Voltage (V)	10 min	15 min	30 min	1h	1.5 h	2 h	3 h	5 h	8 h	10 h	20 h
1.60V	441	349	196	114	91	77	47.3	32.9	22.5	18.9	9.84
1.65V	422	332	187	113	89	75	46.6	32.2	22.2	18.7	9.75
1.70V	402	316	178	109	87	73	45.5	31.4	21.8	18.6	9.64
1.75V	382	302	169	107	86	72	44.7	30.9	21.3	18.4	9.54
1.80V	364	287	162	105	84	70	43.6	30.0	20.9	18.2	9.45

Constant Power Discharge Data Sheet (@25°C) Unit: W											
End Voltage (V)	10 min	15 min	30 min	1h	1.5 h	2 h	3 h	5 h	8 h	10 h	20 h
1.60V	4934	4088	2531	1475	1077	805	600	387	293	227	122
1.65V	4700	3895	2409	1440	1049	786	586	378	288	224	121
1.70V	4476	3709	2295	1404	1023	766	571	369	282	222	119
1.75V	4263	3532	2186	1369	998	747	557	360	277	220	118
1.80V	4059	3363	2082	1336	975	729	543	350	271	218	117

Applications

- Pumps systems
- Solar lighting systems
- Telecom stations and power stations
- Solar/wind energy storage systems

General Features

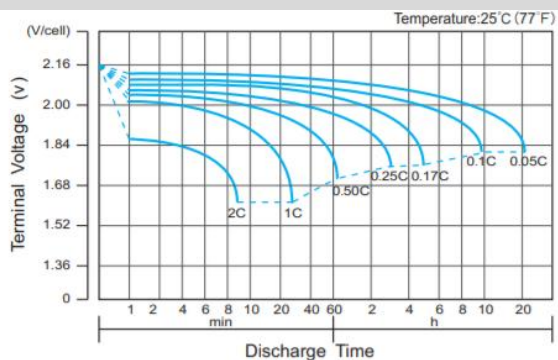
- 15-18 years design life(25°C)
- Adopt advanced GEL technology
- High purity raw material
- Thick plate design
- Special grid alloy and paste formula
- High-temperature curing technology and low

Standards

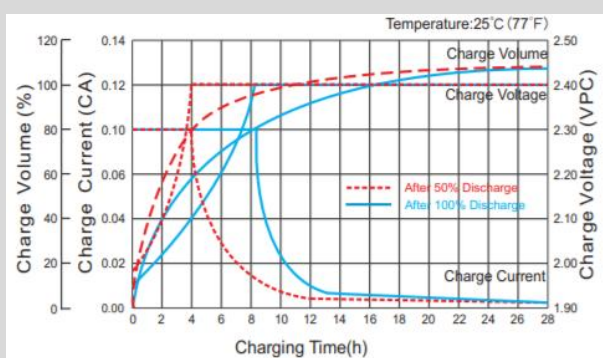
- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in ISO45001,ISO 9001 and ISO 14001 certified production facilities

⚠ NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

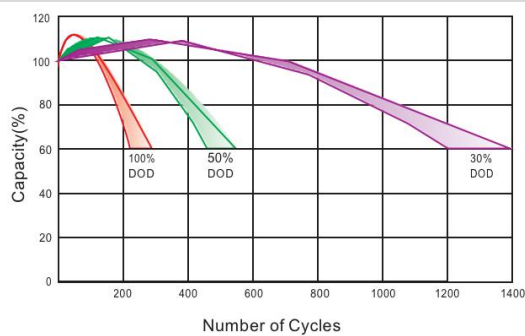
Discharge Characteristics



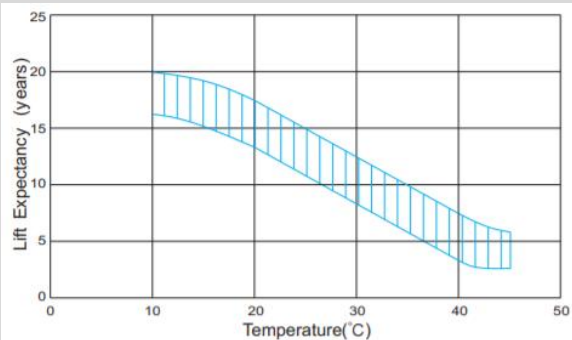
Charge Characteristic



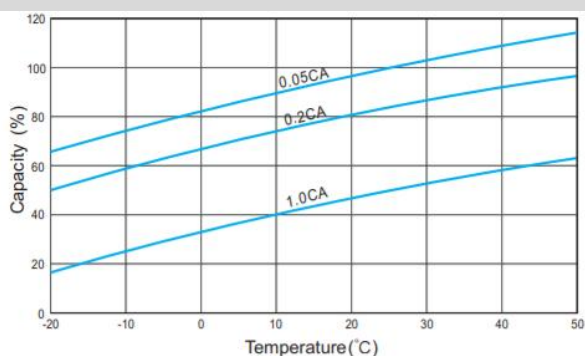
Cycle Life in Relation to Depth of Discharge



Temperature vs Float Life



Capacity Curve At Different Temperature



Self Discharge Characteristics

