

HYBRID GEL BATTERY

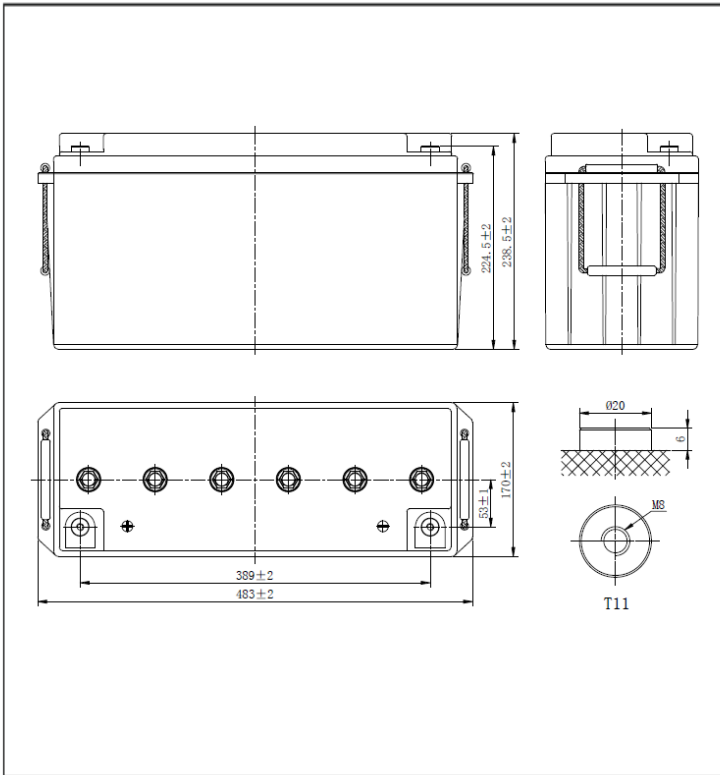
150Ah
112.5Ah
85Ah

BLACK BATT.

SPECIFICATIONS

Model	BBG 150-12	
Nominal Voltage	12V	
Rated capacity (20 hour rate)	150Ah	
Dimensions	Length	483mm (19.0inches)
	Width	170mm (6.69inches)
	Height	238.5mm (9.39inches)
	Total Height	238.5mm (9.39inches)
Approx. Weight	43.6 kg (96.1 lbs)	

OUTER DIMENSIONS (MM) / TERMINAL TYPE (MM)



CHARACTERISTICS

Capacity (25 °C)	20HR(10.5V)	150Ah
	10HR(10.5V)	112.5Ah
	1HR(9.60V)	85Ah
Terminal type		T11 (M8)
Internal resistance (Fully charged, 25 °C)		Approx 3.5m Ψ
Capacity affected by temperature (20HR)	40 °C	103%
	25 °C	100%
	0 °C	86%
	-15 °C	65%
Self-discharge (25 °C)	3 months	Remaining Capacity:91%
	6 months	Remaining Capacity:82%
	12 months	Remaining Capacity:65%
Nominal operating temperature		25°C ± 3°C (77°F ± 5°F)
Operating temperature range	Discharge	-15°C ~ 50°C (5°F ~ 122°F)
	Charge	-10°C ~ 50°C (14°F ~ 122°F)
	Storage	-20°C ~ 50°C (-4°F ~ 122°F)
Float charging voltage (25°C)		13.60 to 13.80V Temperature compensation: -18mV/°C
Cyclic charging voltage (25°C)		14.50 to 14.90V Temperature compensation: -30mV/°C
Maximum charging current		0.25C
Terminal material		Copper
Maximum discharge current		900A (5 sec.)
Designed floating life (20°C)		10 years

CONSTANT CURRENT DISCHARGE CHARACTERISTICS UNIT: A (25°C)

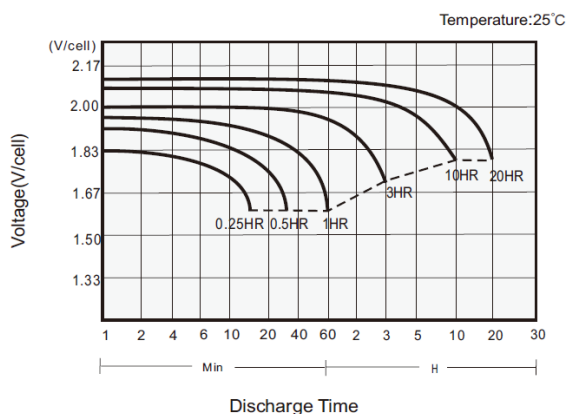
F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	161.7	135.2	106.9	81.2	67.2	42.7	33.2	27.3	23.2	20.2	16.4	13.9	7.50
1.80V/cell	192.5	157.5	123.0	92.1	74.7	46.4	35.6	29.0	24.9	21.7	17.5	15.0	7.73
1.75V/cell	214.6	173.0	131.1	97.4	79.0	48.6	36.9	30.0	25.5	22.3	17.8	15.2	7.80
1.70V/cell	231.8	183.9	138.3	102.3	82.5	51.0	38.2	30.9	26.2	22.7	18.1	15.2	7.95
1.67V/cell	244.1	193.5	144.8	105.4	85.4	52.4	39.6	31.8	26.8	23.2	18.3	15.4	8.03
1.60V/cell	263.2	207.8	153.9	111.4	89.6	54.3	41.0	32.6	27.3	23.7	18.6	15.6	8.10

CONSTANT POWER DISCHARGE CHARACTERISTICS UNIT: W (25°C)

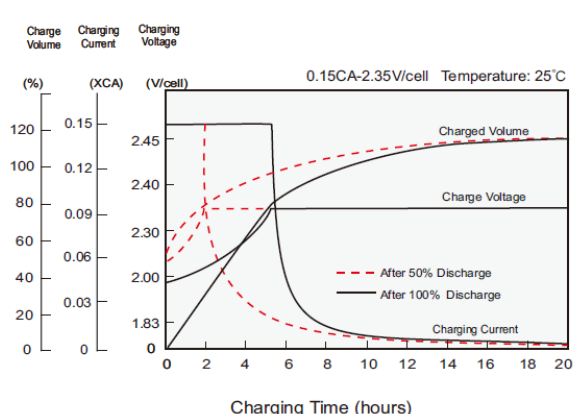
F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	304.0	256.9	204.8	156.7	130.1	83.2	64.8	53.5	45.6	39.8	32.6	27.7	14.9
1.80V/cell	357.4	295.1	232.8	176.5	144.0	89.9	69.3	56.7	48.8	42.6	34.6	29.7	15.3
1.75V/cell	393.2	320.6	246.0	185.1	151.6	93.9	71.6	58.4	49.8	43.6	35.1	30.0	15.5
1.70V/cell	418.2	337.8	257.6	193.3	157.6	98.2	73.9	60.0	51.0	44.5	35.6	30.1	15.8
1.67V/cell	436.1	352.1	267.3	197.5	162.1	100.3	76.3	61.6	52.0	45.3	36.0	30.4	15.9
1.60V/cell	462.4	373.9	281.7	207.5	169.0	103.5	78.6	62.8	52.9	46.1	36.4	30.8	16.0

Note: The above characteristics data can be obtained within three charge/discharge cycles

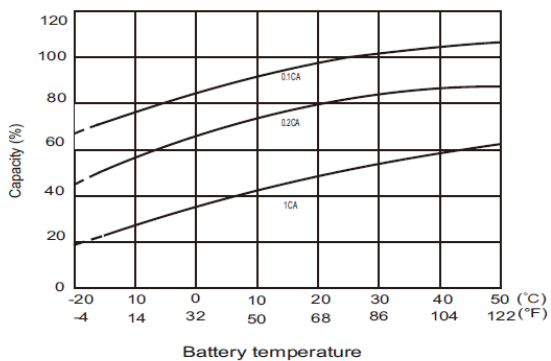
DISCHARGE CHARACTERISTICS (25°C)



CHARGING CHARACTERISTICS (25°C)



TEMPERATURE EFFECTS ON CAPACITY



SELF-DISCHARGE CHARACTERISTICS

