



SDDirectPro

A Reliable Power Solution Provider

GB12-100 (12V100Ah)

General Purpose AGM Battery-GB Series



SPECIFICATION

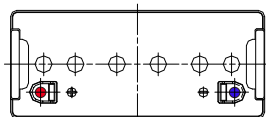
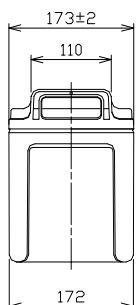
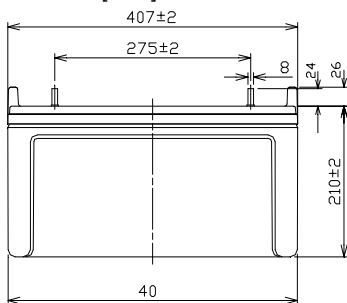
Nominal Volatage:	12	V
Nominal Capacity:	100	Ah (C20@25°C)
Dimension(mm):	L 407	W 173 H 210 TH 236
Weight:	29.5	Kg
Rated Capacity	C20	105 Ah (5.2A 20 Hr,1.80V/cell)
	C10	100 Ah (10A 10 Hr,1.80V/cell)
	C1	65 Ah (65A 1 Hr,1.60V/cell)
15min Power	2093	W @9.6V
Container Material:	ABS to UL94 HB (Optional UL94V-0 Flame Retardant Jars Available)	
Internal Resistance:	Approx 5mΩ	
Operation Temperature Range	Discharge:	-20°C ~ +60°C (-4~140°F)
	Charge:	-10°C ~ +60°C (14~140°F)
	Storage:	-20°C ~ +60°C (-4~140°F)
Recommended Temp.:	15°C ~25°C (59~77°F)	
Charge Method	Float Voltage	13.5~13.8V @25°C, Temperature coefficient -18mV/°C
	Cycle Voltage	14.4~15.0V @25°C. Initial charge current less than 0.36A, Temperature coefficient -24mV/°C
Capacity affected by temperature	40°C	103%
	25°C	100%
	0°C	86%
	-15°C	65%
Self Discharge	<3%, The series stored at 25°C require a supplementary charge every six months, the charging interval would shrink when the ambient temperature went higher	
Design Life @20°C	10 Years	

APPLICATION

- All purpose
- Electric Power System (EPS)
- Emergency lighting
- Railway signal , Aircraft signal
- Power tools
- Alarm and security system
- Electronic apparatus and equipment
- Auto control system

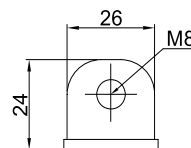
DIMENSION

Unit:mm [inch]



TERMINAL

Unit:mm





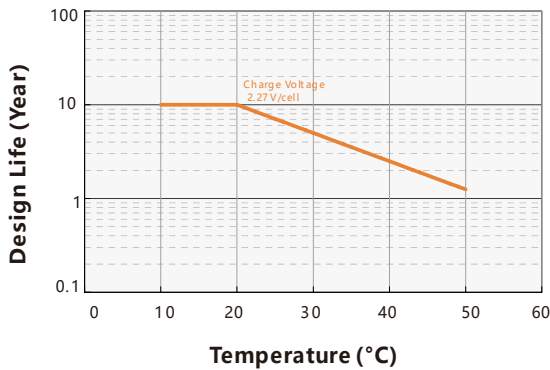
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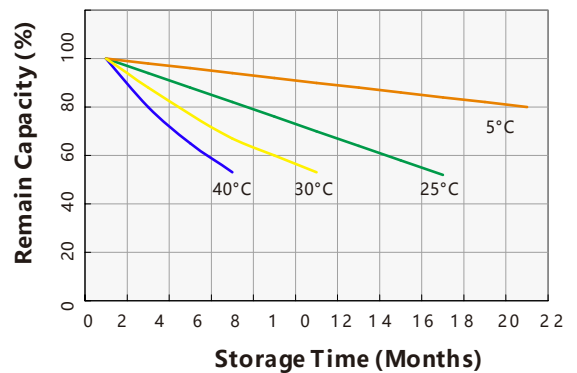
Constant Current Discharge (A) @25°C														
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	10h	20h
1.80V/cell	262	177	145	129	98.6	73.4	59.2	35.7	29.8	22.5	17.8	15.3	10	5.26
1.75V/cell	300	202	158	134	104	76.1	61.6	38.2	31	23.3	18.6	16	10.1	5.35
1.70V/cell	324	218	170	142	107	77.4	62.9	39.6	31.4	23.5	18.7	16.1	10.2	5.36
1.65V/cell	332	224	173	143	108	78.1	64.1	40.7	31.7	23.7	18.9	16.2	10.2	5.38
1.60V/cell	336	227	175	145	109	80	65.1	40.9	32.3	23.8	19.5	16.2	10.3	5.49

Constant Power Discharge (W/cell) @25°C														
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	10h	20h
1.80V/cell	359.7	323.0	287.8	252.3	192.0	142.3	112.0	66.67	52.00	38.17	29.17	24.50	15.05	8.117
1.75V/cell	407.0	369.2	314.7	264.5	203.0	147.3	113.7	68.33	53.00	39.17	30.00	25.50	15.25	8.300
1.70V/cell	454.2	398.5	338.3	278.5	207.5	149.7	116.8	69.67	54.00	39.50	30.00	25.50	15.42	8.300
1.65V/cell	484.5	409.2	345.2	283.2	209.8	151.0	120.2	70.67	55.00	40.50	31.00	26.17	15.62	8.383
1.60V/cell	493.3	414.0	348.8	288.3	212.2	154.8	123.3	72.50	56.00	41.17	32.17	27.00	16.15	8.383

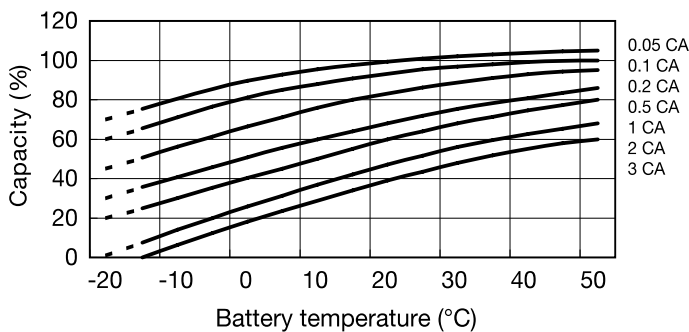
Battery Life with Different Temperature



Self discharge with different Temperature



Capacity with Different Discharge Rate & Temperature



Charge Characteristics

