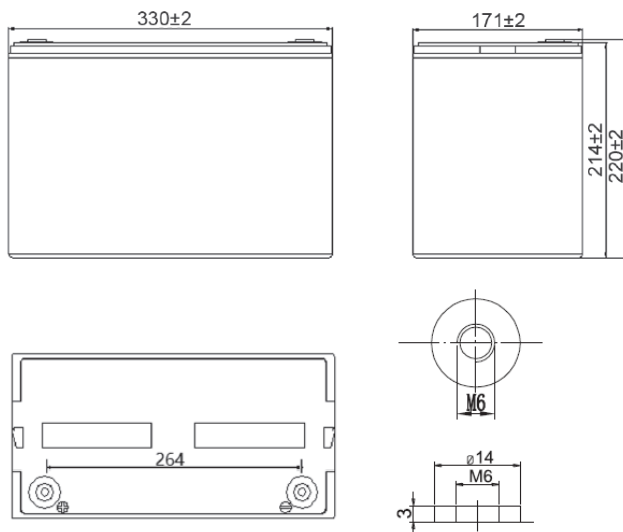


TECHNICAL FEATURES

- Non-spillable maintenance free product
- Non restricted for air transport. Complies with IATA/ICAO Special Provision A67
- UL-recognized component
- Can be mounted in any orientation
- Specially designed lead, calcium tin alloy grid for high power density
- Long service life, float or cyclic applications
- Low self discharge
- Case & cover available in both standard and flame retardant ABS



SPECIFICATIONS

Nominal Voltage		12 V
Number of cells		6
Design Floating Life		12 years
Dimensions	Length	330 mm
	Width	171 mm
	Height	214 mm
	Total Height	220 mm
Weight		30.0 kg
Nominal Capacity (25°C)	20 hours rate (1.80)	103 Ah
	10 hours rate (1.80)	100 Ah
	5 hours rate (1.75)	83.0 Ah
	1 hours rate (1.60)	60.0 Ah
Internal Resistance (fully charged, 25°C)		5 mOhm
Self Discharge		approx. 3% per month at 25°C
Nominal Operating Temperature		25°C
Operating Temperature range	Discharge	-15°C to 50°C
	Charge	-10°C to 50°C
	Storage	-20°C to 50°C
Float Charging Voltage		13.5V to 13.8V
Temperature compensation		-18mV/°C
Cyclic Charging Voltage		14.4V to 14.7V
Temperature compensation		-30mV/°C
Maximum charging current		20.0 A
Maximum discharge current (25°C)		800 A (5 sec.)
Short Circuit Current		2700 A

PERFORMANCE DATA

Discharge Constant Current at 25°C (Amperes)

End Voltage (V/cell)	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60 V	165	152	96.0	60.0	36.0	24.5	19.4	16.9	12.0	10.2	5.24
1.65 V	160	148	94.1	59.1	35.8	24.3	19.3	16.8	12.0	10.2	5.23
1.70 V	153	143	91.2	57.6	35.5	24.2	19.1	16.7	11.9	10.1	5.22
1.75 V	147	138	89.0	56.5	35.0	24.0	19.0	16.6	11.8	10.1	5.19
1.80 V	139	131	85.7	54.7	34.1	23.3	18.4	16.1	11.4	10.0	5.15

Discharge Constant Power at 25°C (Watts)

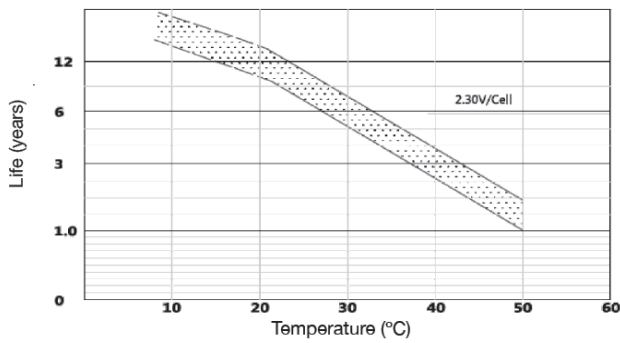
End Voltage (V/cell)	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60 V	1782	1669	1077	684	417	288	228	200	143	122	62.9
1.65 V	1729	1629	1056	674	415	286	227	199	142	121	62.8
1.70 V	1657	1569	1023	657	411	284	225	198	141	121	62.6
1.75 V	1586	1515	998	644	405	282	223	196	140	120	62.2
1.80 V	1497	1435	962	624	395	274	217	190	136	119	61.8

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

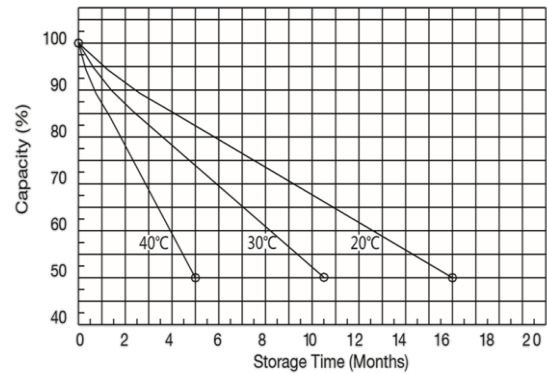
SPG 12V-100Ah

VRLA GEL Battery

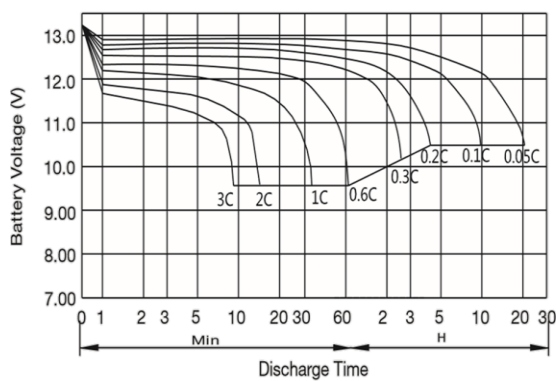
Temperature Effects on Float Life



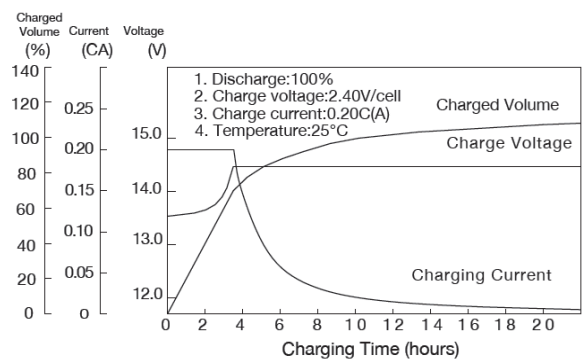
Self Discharge Characteristics



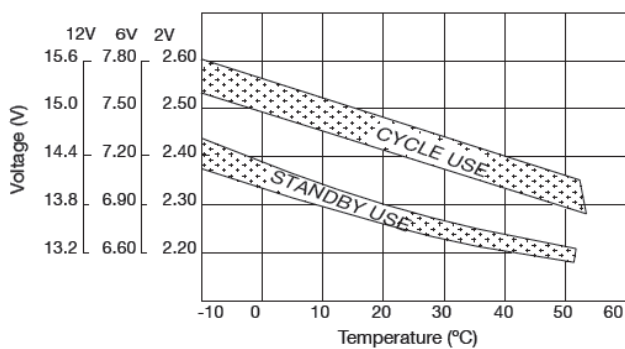
Discharge Characteristics (25°C)



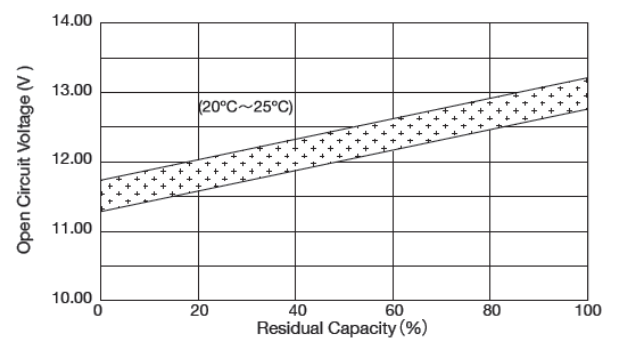
Charging Characteristics (25°C)



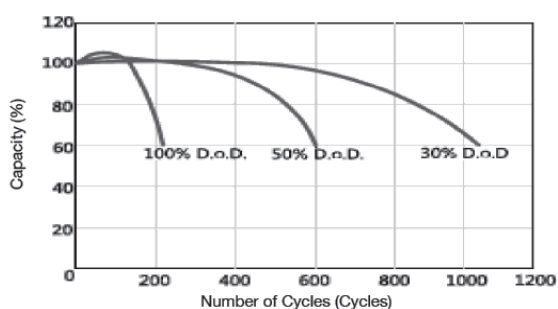
Relationship Between Charging Voltage and Temperature



Relationship Between OCV and Residual Capacity (25°C)



Cycle Service Life in Relation to Depth of Discharge



Temperature Effects on Capacity

