

DURATION SERIES VRLA BATTERY

By combining up-to-date DCP-II formula in the positive plates and enhanced electrolyte for VRLA, we created an innovative range of DC batteries. This range features deep cycling use with higher cyclic life when compared with the standard Duration range. This series is highly suited to cyclic applications such as outdoor applications, small RE systems and electric vehicles.

12 V
 voltage

135Ah
 capacity

AGM
 tech

 Enhanced
 deep cycling

TECHNICAL SPECIFICATIONS

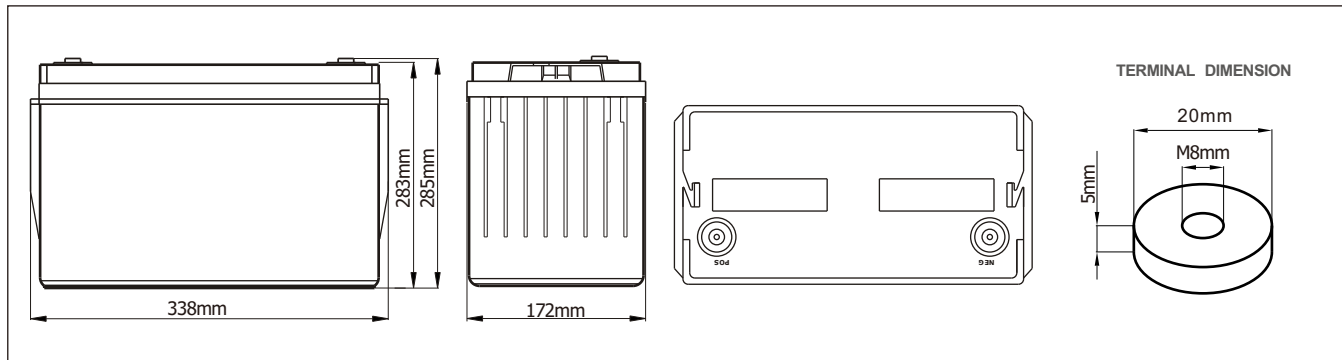
Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (20°C)	12 Years
Nominal Capacity (25°C)	135 Ah @ 10HR-rate (to 1.80Vpc)
Dimension (mm)	L338mm x W172mm x H285mm
Approx. Weight	45.0 kg
Terminal Type	Female Copper Insert M8 (torque:8~10N.m)
Internal Resistance	Approx. 0.0038 Ohm (fully charged @ 25°C)
Max. Charge Current	33.75A
Max. Discharge Current (5S)	1000 A
Short Circuit Current	3150 A
Self Discharge	Approx. 2.5% per month @ 20°C
Ambient Temperature	Discharge: -20~60°C Charge: -20~60°C Storage: -20~45°C
Float Charge Voltage	13.5V @25°C (-3mV/ cell/ °C)
Equalize and cycle Use Charge Voltage	14.1-14.4V @25°C
Container Material	ABS (UL94-V0 optional)



Complied standards

- IEC 60896-21/22
- GB/T19638
- IEC61427
- JIS C8704
- BS6290 part 4
- UL1989

BATTERY DIMENSIONS

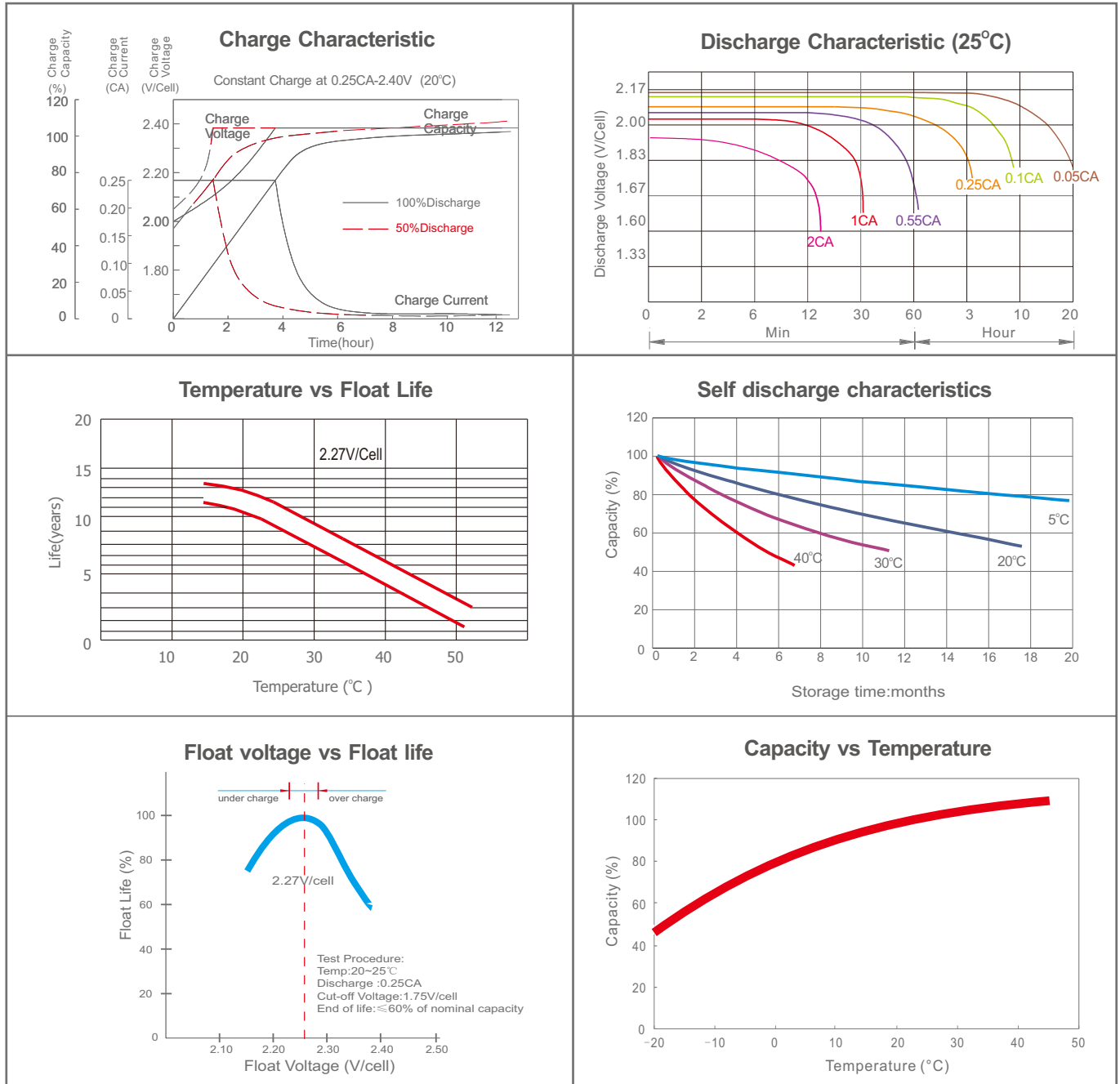


BATTERY DISCHARGE TABLE

Constant Current Discharge Characteristics: Amps (25°C)											
F.V/Time	10 m in	15 m in	30 m in	1 h	2 h	3 h	4 h	5 h	8 h	10 h	20 h
1.60 V	287	237	146	89.4	52.5	37.9	30.5	25.4	17.3	14.3	7.71
1.67 V	264	223	139	87.1	51.6	37.4	30.1	25.1	17.1	14.1	7.53
1.70 V	240	211	134	85.1	50.9	37.0	29.8	24.9	16.9	14.0	7.36
1.75 V	223	196	130	83.3	50.0	36.4	29.5	24.5	16.7	13.8	7.22
1.80 V	203	183	124	80.6	48.9	35.7	28.8	23.9	16.3	13.5	7.08
1.85 V	183	166	117	77.1	47.0	34.5	27.9	23.4	15.9	13.1	6.92

Constant Power Discharge Characteristics: W/cell (25°C)											
F.V/Time	10 m in	15 m in	30 m in	1 h	2 h	3 h	4 h	5 h	8 h	10 h	20 h
1.60 V	516	432	270	167	98.5	71.5	57.8	48.4	33.3	27.6	15.0
1.67 V	480	410	259	163	97.4	71.1	57.4	48.1	33.1	27.5	14.7
1.70 V	441	391	251	161	96.9	70.8	57.3	48.0	32.9	27.3	14.5
1.75 V	414	367	245	159	96.0	70.2	57.1	47.8	32.7	27.1	14.3
1.80 V	381	345	236	155	94.8	69.5	56.3	47.0	32.2	26.8	14.2
1.85 V	347	318	225	150	92.0	67.8	55.1	46.3	31.7	26.3	13.9

CHARACTERISTICS



FINAL VOLTAGE SETTINGS RECOMMENDED ACCORDING TO THE DISCHARGE CURRENT

Discharge Current I (A)	$I \leq 0.08C$	$0.08C \leq I < 0.2C$	$0.2C \leq I < 0.6C$	$0.6C \leq I < 1.0C$	$I \geq 1.0C$
Final of Voltage	$\geq 1.85V_{pc}$	$\geq 1.80V_{pc}$	$\geq 1.75V_{pc}$	$\geq 1.70V_{pc}$	$\geq 1.60V_{pc}$

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