

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

55Ah
 capacity

AGM
 tech

 Enhanced
 deep cycling

TECHNICAL SPECIFICATIONS

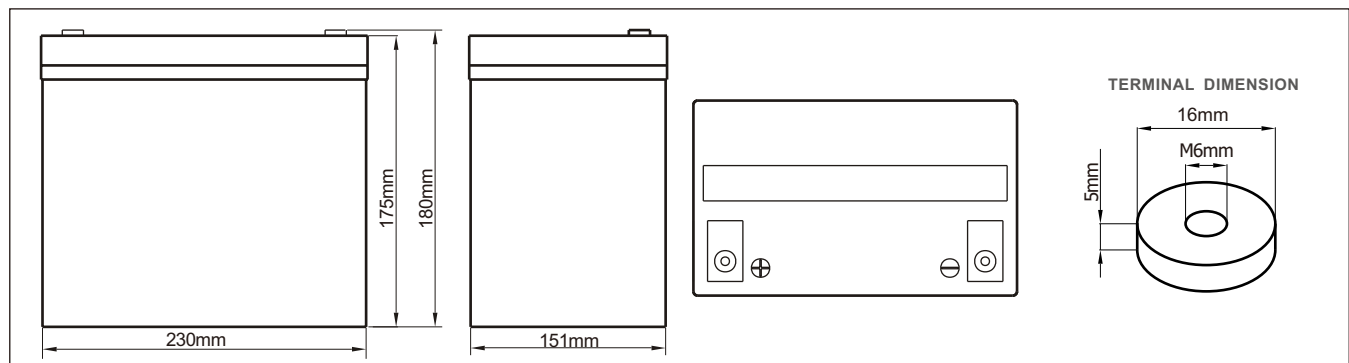
Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (20°C)	10 Years
Nominal Capacity (25°C)	55 Ah @ 10HR-rate (to 1.80Vpc)
Dimension (mm)	L230mm x W151mm x H180mm
Approx. Weight	16.6 kg
Terminal Type	Female Copper Insert M6 (torque:6~8N.m)
Internal Resistance	Approx. 0.006 Ohm (fully charged @ 25°C)
Max. Charge Current	13.75A
Max. Discharge Current (5S)	500 A
Short Circuit Current	2050 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/T 19638
- IEC61427
- JIS C8704
- BS6290 part 4
- UL1989

BATTERY DIMENSIONS

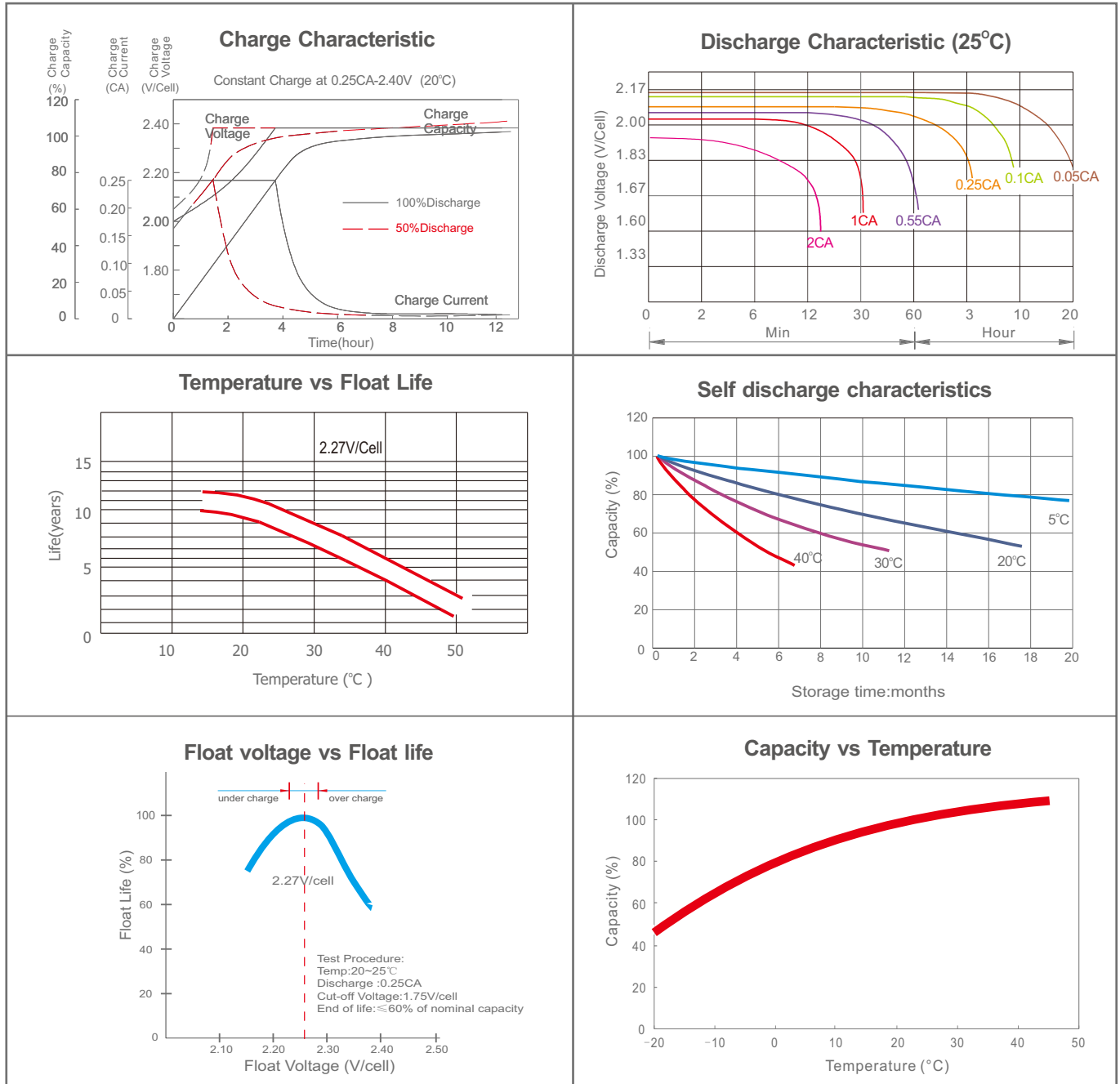


BATTERY DISCHARGE TABLE

Constant Current Discharge Characteristics: Amps (25°C)											
F.V/Time	10m in	15m in	30m in	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	117	96.5	59.5	36.4	21.4	15.4	12.4	10.4	7.07	5.83	3.14
1.67V	107.7	90.9	56.8	35.5	21.0	15.2	12.3	10.2	6.98	5.76	3.07
1.70V	97.9	85.9	54.7	34.7	20.7	15.1	12.1	10.1	6.89	5.69	3.00
1.75V	90.9	79.8	52.8	33.9	20.4	14.8	12.0	10.0	6.79	5.61	2.94
1.80V	82.7	74.4	50.5	32.8	19.9	14.5	11.7	9.76	6.63	5.50	2.89
1.85V	74.4	67.8	47.6	31.4	19.2	14.1	11.4	9.53	6.49	5.36	2.82

Constant Power Discharge Characteristics: W/cell (25°C)											
F.V/Time	10m in	15m in	30m in	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	210	176	110	67.9	40.1	29.1	23.6	19.7	13.6	11.3	6.10
1.67V	196	167	106	66.5	39.7	29.0	23.4	19.6	13.5	11.2	6.00
1.70V	180	159	102	65.4	39.5	28.8	23.3	19.5	13.4	11.1	5.91
1.75V	169	150	100	64.6	39.1	28.6	23.1	19.4	13.3	11.0	5.83
1.80V	155	141	96.2	63.0	38.6	28.3	22.9	19.2	13.1	10.9	5.77
1.85V	141	130	91.7	60.9	37.5	27.6	22.5	18.8	12.9	10.7	5.67

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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