

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

75Ah
 capacity

AGM
 tech

 Enhanced
 deep cycling

TECHNICAL SPECIFICATIONS

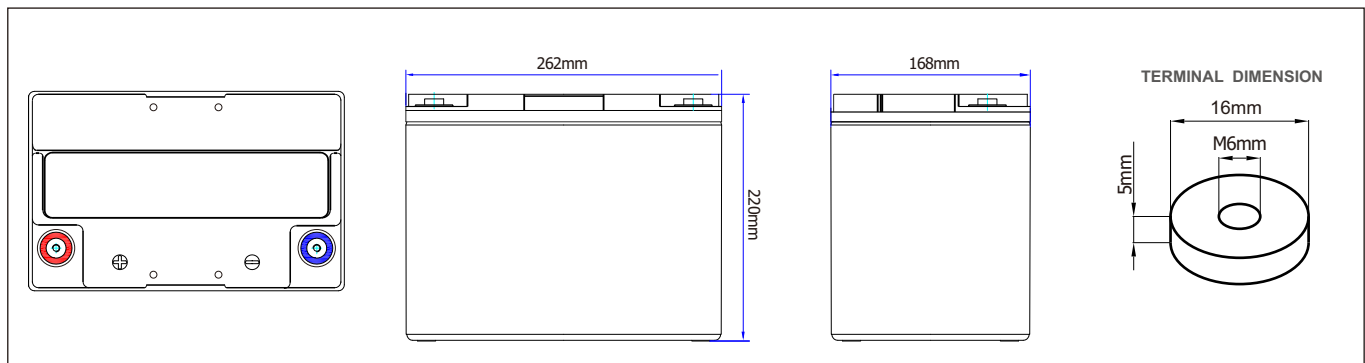
Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (20°C)	10 Years
Nominal Capacity (25°C)	75 Ah @ 10HR-rate (to 1.80Vpc)
Dimension (mm)	L262mm x W168mm x H220mm
Approx. Weight	26.2 kg
Terminal Type	Female Copper Insert M6 (torque:6~8N.m)
Internal Resistance	Approx. 4 mOhm (fully charged @ 25°C)
Max. Charge Current	30A
Max. Discharge Current (5S)	800 A
Short Circuit Current	2200 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	13.6V @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

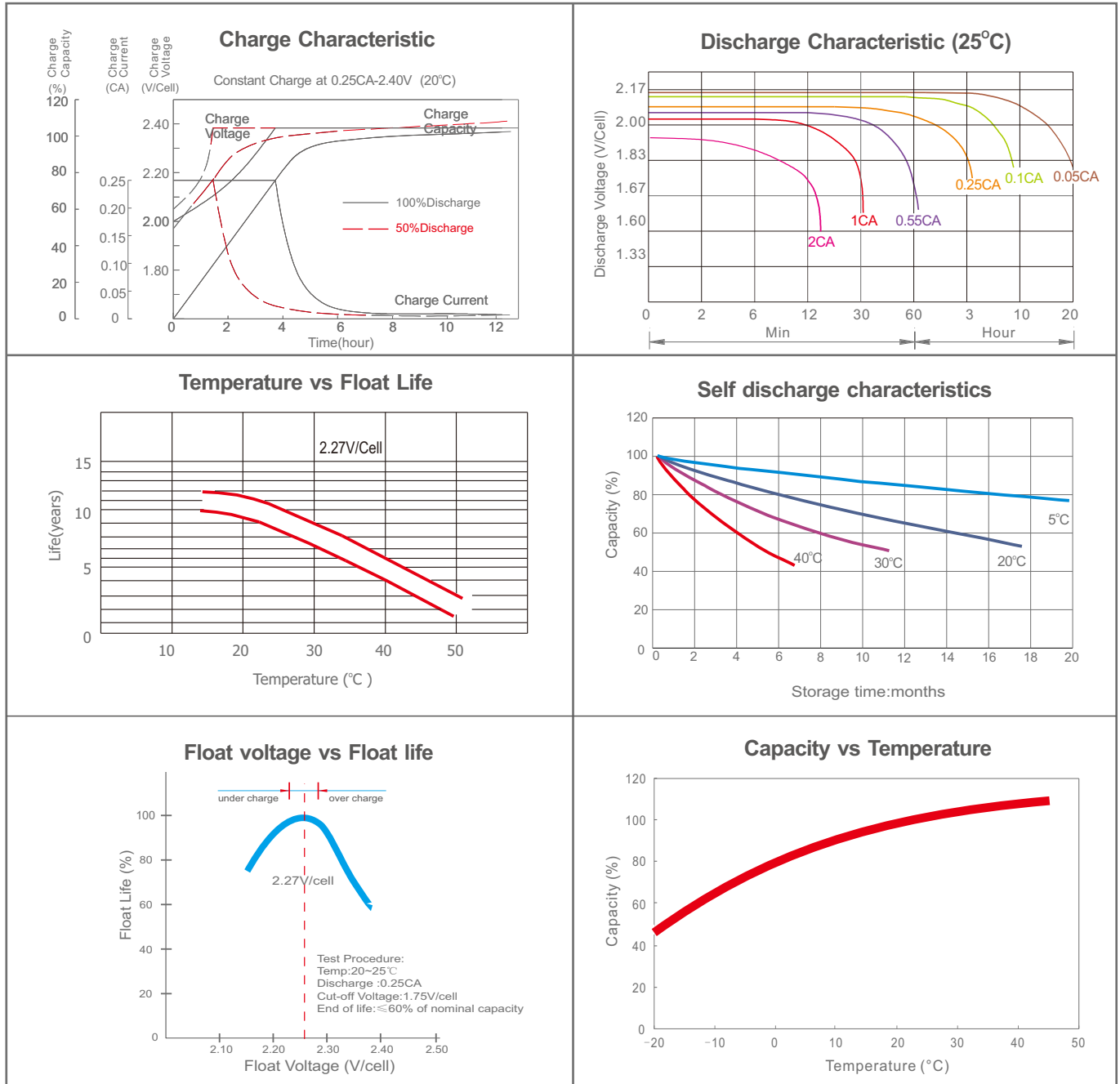


BATTERY DISCHARGE TABLE

Constant Current Discharge Characteristics: Amps (25°C)											
F.V/Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	223	172	109	64.5	36.2	26.8	20.8	17.1	11.1	9.08	4.74
1.67V	216	166	106	63.7	35.8	26.5	20.5	16.9	10.9	8.97	4.68
1.70V	204	162	104	62.7	35.4	26.3	20.2	16.7	10.8	8.86	4.60
1.75V	195	158	102	61.6	34.9	25.9	20.0	16.5	10.7	8.76	4.50
1.80V	183	154	101	60.4	34.4	25.6	19.7	16.3	10.6	8.62	4.42
1.85V	176	151	98.2	59.5	33.9	25.2	19.5	16.1	10.4	8.52	4.29

Constant Power Discharge Characteristics: W/cell (25°C)											
F.V/Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	400	314	189	114	68.1	51.7	41.1	33.9	22.1	18.3	9.50
1.67V	390	305	186	113	67.7	51.4	40.7	33.7	22.0	18.1	9.43
1.70V	378	300	184	113	67.5	51.3	40.5	33.6	21.9	18.0	9.35
1.75V	365	295	182	112	67.2	51.3	40.4	33.3	21.9	18.0	9.20
1.80V	349	292	180	110	66.8	50.9	40.3	33.2	21.8	17.9	9.04
1.85V	333	287	178	109	66.5	50.8	40.2	33.2	21.6	17.8	8.89

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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