DEEP CYCLE 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 | 33Ah capacity | AGM tech | Enhanced deep cycling

TECHNICAL SPECIFICATIONS

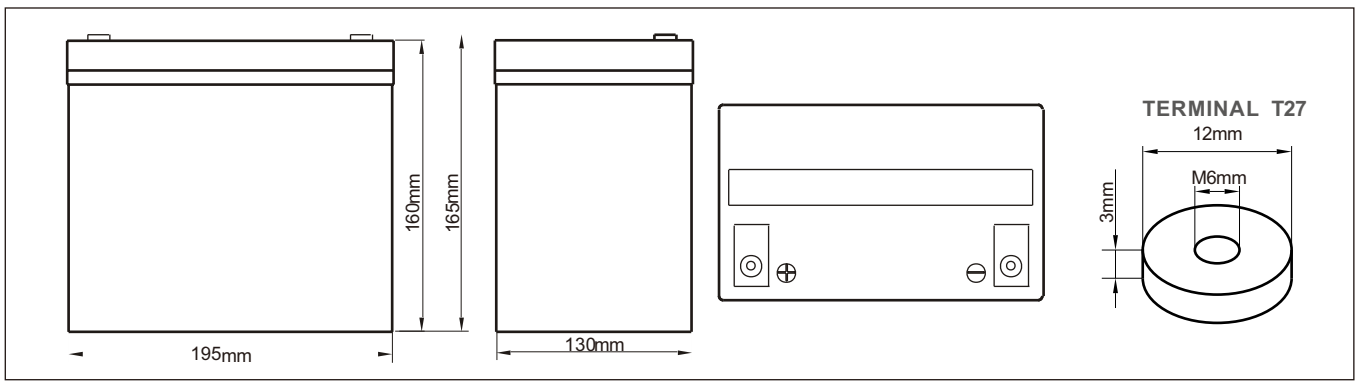
Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (20℃)	5 Years
Nominal Capacity (25℃)	33 Ah @ 20HR-rate (to 1.75Vpc)
Dimension (mm)	L195mm x W130mm x H165mm
Approx. Weight	10 kg
Terminal Type	Female Copper Insert M6 (torque:6~7N.m)
Internal Resistance	Approx. 0.009 Ohm (fully charged @ 25°C)
Max. Charge Current	10.5 A
Max. Discharge Current (5S)	400 A
Short Circuit Current	1300 A
Self Discharge	Approx. 2.5% per month @ 20°C
Ambient Temperature	Discharge: -15~55°C Charge: -15~45°C Storage: -15~45°C
Float Charge Voltage	13.6V @25℃ (-3mV/ cell/ °C)
Equalize and cycle Use Charge Voltage	14.1V @25℃
Container Material	ABS (UL94-V0 optional)

ISO9001 ISO14001

Complied standards

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

BATTERY DIMENSIONS



BATTERY DISCHARGE TABLE

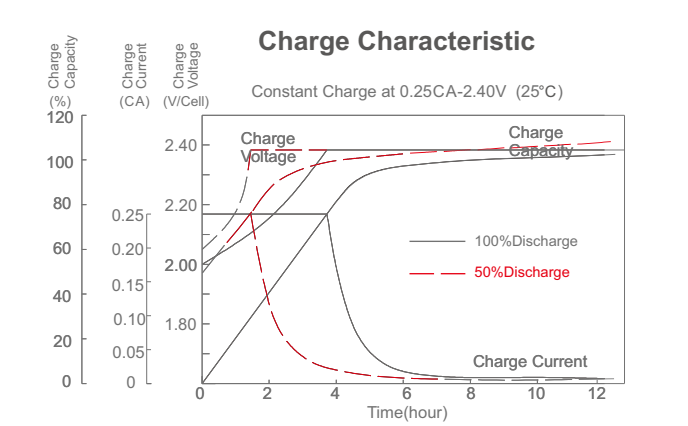
Constant Current Discharge Characteristics: Amps (25°C)

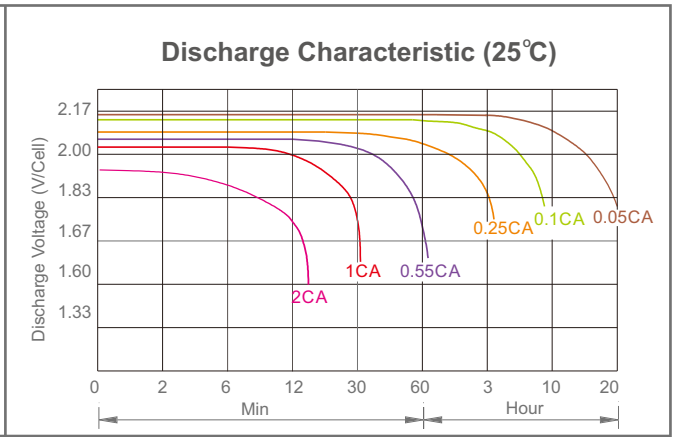
F.V/Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	77.2	58.9	35.1	20.9	12.5	8.92	7.05	5.82	4.24	3.47	1.86
1.67V	74.6	56.9	34.2	20.6	12.4	8.83	6.95	5.75	4.19	3.43	1.82
1.70V	71.4	55.5	33.7	20.4	12.2	8.75	6.86	5.68	4.14	3.39	1.79
1.75V	68.2	54.1	32.9	21.6	12.0	8.67	6.79	5.61	4.10	3.35	1.75
1.80V	64.5	52.8	32.3	20.0	11.9	8.53	6.71	5.54	4.06	3.31	1.71
1.85V	60.8	51.4	31.6	19.5	11.7	8.43	6.63	5.49	4.00	3.27	1.67

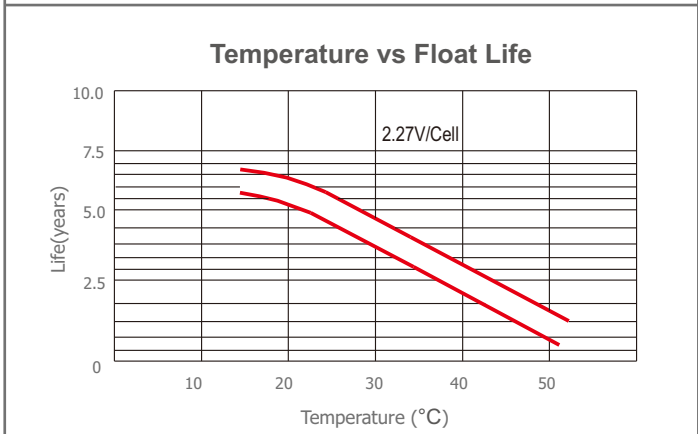
Constant Power Discharge Characteristics: W/cell (25°C)

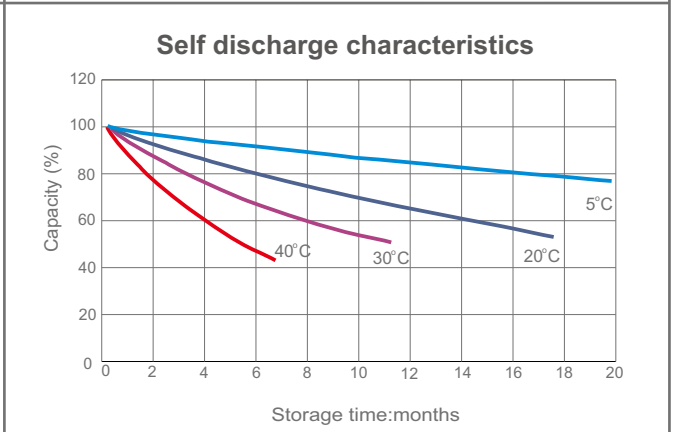
F.V/Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	150	116	70.1	42.1	25.4	18.2	14.5	12.0	8.15	6.70	3.60
1.67V	146	113	68.8	41.8	25.2	18.1	14.4	11.9	8.11	6.66	3.56
1.70V	142	111	68.2	41.4	25.0	18.0	14.3	11.8	8.07	6.63	3.53
1.75V	137	110	67.2	41.1	24.9	17.9	14.2	11.7	8.06	6.60	3.47
1.80V	131	108	66.5	40.6	24.8	17.8	14.1	11.6	8.03	6.57	3.42
1.85V	125	106	65.9	40.4	24.6	17.7	14.0	11.5	7.98	6.53	3.35

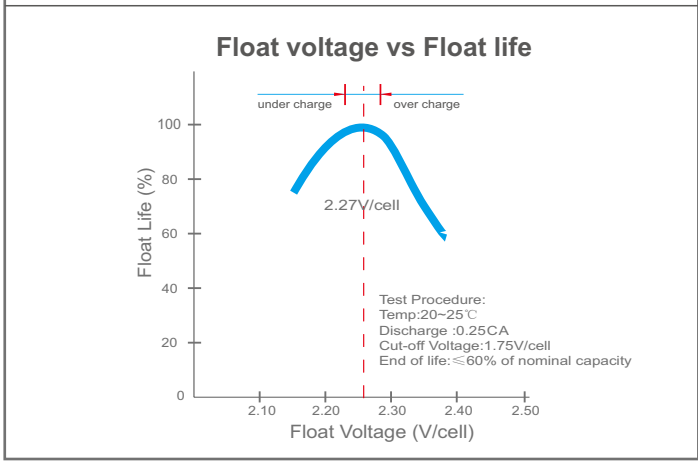
CHARACTERISTICS

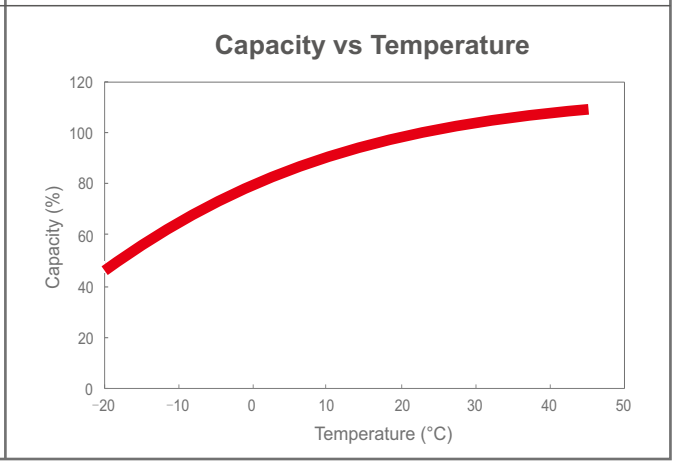












FINAL VOLTAGE SETTINGS RECOMMENDED ACCORDING TO THE DISCHARGE CURRENT

Discharge Current I(A)	I ≤0.08C	0.08C≤I<0.2C	0.2C≤I<0.6C	0.6C≤I<1.0C	I≥1.0C
Final of Voltage	≥1.85Vpc	≥1.80Vpc	≥1.75Vpc	≥1.70Vpc	≥1.60Vpc

Aeson Power
18/40 Ricketts Road, Mount Waverley
Tel: +61 3 9545 5993
Website:www.aesonpower.com.au Email: info@aesonpower.com.au