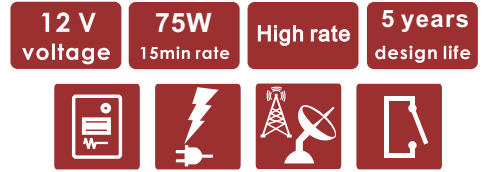


## HIGH RATE SERIES VRLA BATTERY

The HR (High Rate) series is especially designed for high rate discharge applications. By using strong grids and specially designed active material, the HR series offers stable performance during high current discharge. It offers extremely high power output at 5~15 minutes backup time. It is highly suited for high rate UPS/EPS systems and power switchgear applications.



### TECHNICAL SPECIFICATIONS

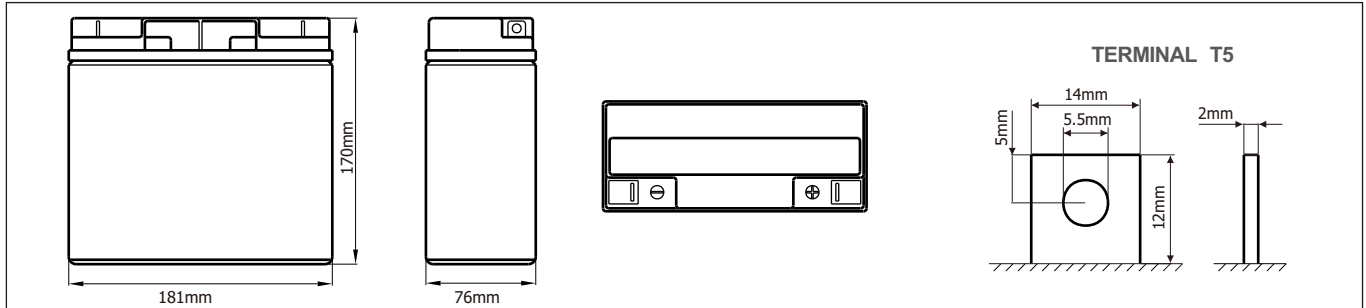
Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (20°C)	5 Years+
Power (15min, 1.67Vpc, 25°C)	75W
Nominal Capacity (25°C)	19 Ah (C10, 1.80Vpc) 20 Ah (C20, 1.80Vpc)
Dimension (mm)	L181mm x W76mm x H170mm
Approx. Weight	5.80 kg
Terminal Type	Terminal T5
Internal Resistance	Approx. 14mΩ (fully charged @ 25°C)
Max. Charge Current	6A
Max. Discharge Current (5S)	300 A
Short Circuit Current	900 A
Self Discharge	Approx. 2.5% per month @ 20°C
Ambient Temperature	Discharge: -20~55°C Charge: -15~45°C Storage: -15~45°C
Float Charge Voltage	13.6V @25°C (-3mV/ cell/ °C)
Equalize Charge Voltage	14.1V @25°C
Container Material	ABS (UL94-V0 optional)



### Complied standards

- GB/T19639
- IEC61056
- JIS C8702
- UL1989

### BATTERY DIMENSIONS

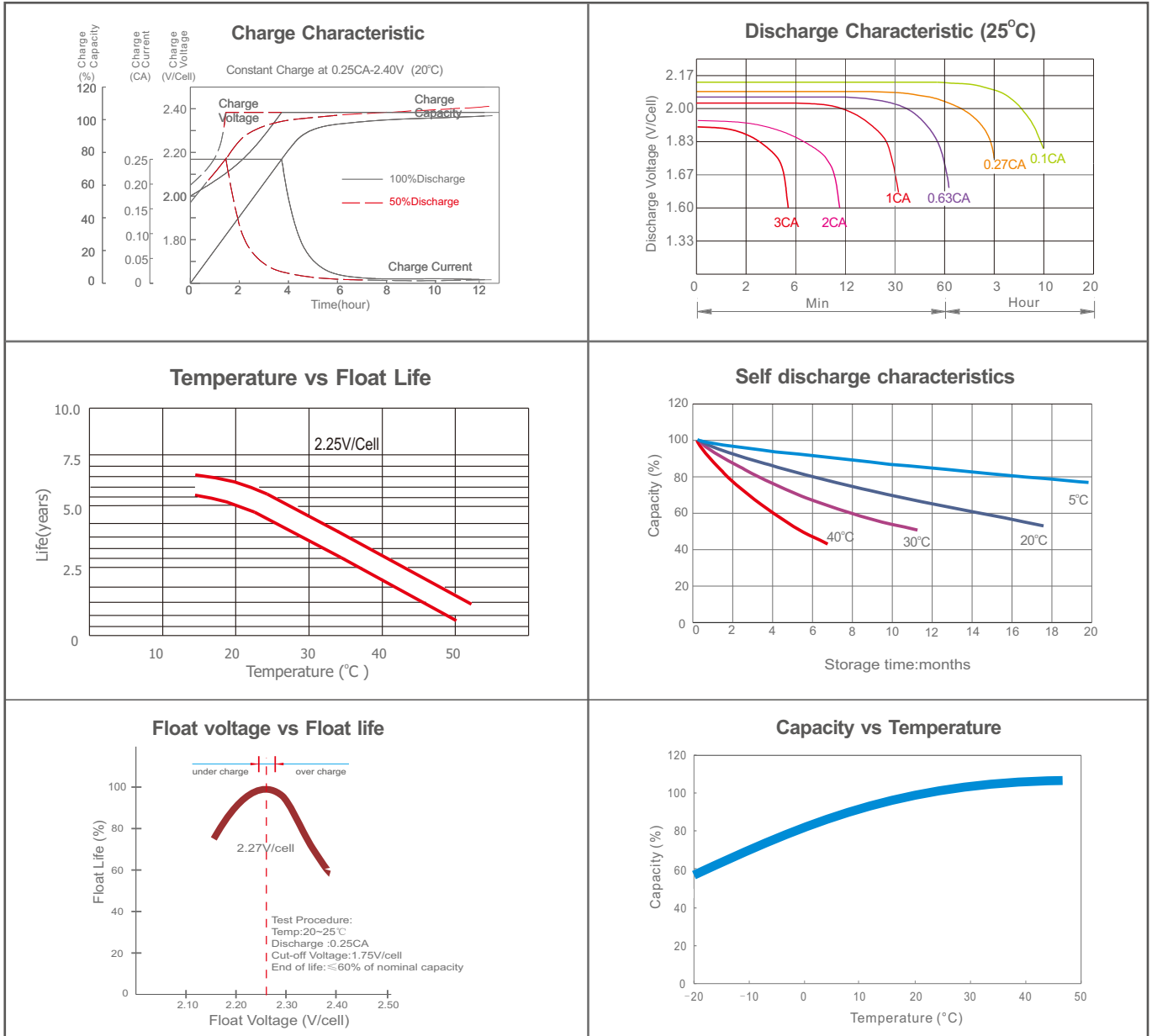


### BATTERY DISCHARGE TABLE

Constant Current Discharge Characteristics: Amps (25°C)									
F.V/Time	5min	8min	10min	15min	20min	30min	45min	60min	90min
1.60V	96.8	70.2	62.5	45.5	35.6	25.5	18.0	14.3	11.4
1.67V	92.4	66.5	58.9	43.7	33.5	24.6	17.5	14.0	11.0
1.70V	89.6	64.9	57.0	42.5	32.6	24.2	17.2	13.8	10.8
1.75V	86.6	62.5	54.4	41.0	31.0	23.3	16.7	13.5	10.6
1.80V	82.8	60.1	51.0	39.7	30.0	22.3	16.2	13.1	10.4
1.85V	77.4	55.3	48.0	37.6	29.0	21.6	15.7	12.7	10.0

Constant Power Discharge Characteristics: W/cell (25°C)									
F.V/Time	5min	8min	10min	15min	20min	30min	45min	60min	90min
1.60V	172	116	100	77.2	65.4	47.5	33.6	26.7	21.3
1.67V	168	112	96.0	75.0	62.2	46.2	32.8	26.1	20.6
1.70V	164	109	94.0	73.4	61.0	45.5	32.4	25.9	20.4
1.75V	155	106	93.2	71.2	58.8	44.4	32.0	25.7	20.3
1.80V	149	102	88.9	69.4	57.0	42.9	31.2	25.3	20.2
1.85V	144	96.7	84.8	67.0	55.8	41.6	30.4	24.8	19.6

**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	$\geq 1.85V_{pc}$	$\geq 1.80V_{pc}$	$\geq 1.75V_{pc}$	$\geq 1.70V_{pc}$	$\geq 1.60V_{pc}$

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

Email: info@aesopower.com.au

