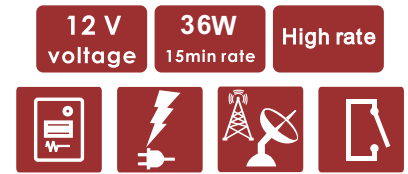


HIGH RATE SERIES VRLA BATTERY

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

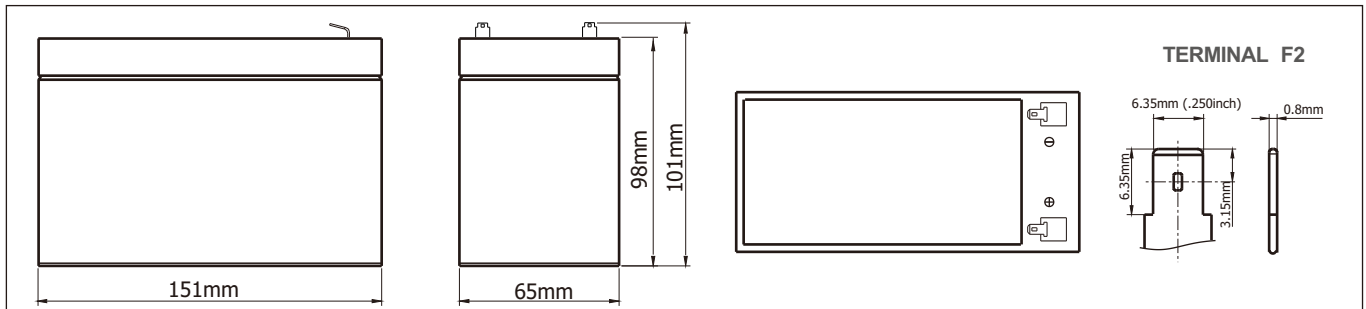
Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (20°C)	Up to 8 Years in Standby Service at 25°C
Power (15min, 1.67Vpc, 25°C)	36W
Nominal Capacity (25°C)	8.1 Ah (C10, 1.75Vpc) 8.5 Ah (C20, 1.75Vpc)
Dimension (mm)	L151mm x W65mm x H101mm
Approx. Weight	2.45 kg
Terminal Type	Fasten Tab F2
Internal Resistance	Approx. 18mΩ (fully charged @ 25°C)
Max. Charge Current	2.5A
Max. Discharge Current (5S)	120 A
Short Circuit Current	670 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

- IEC 60896-21/22
- GB/T 19638
- JIS C8704
- Eurobat guide, long life
- BS6290 part 4
- UL1989

BATTERY DIMENSIONS

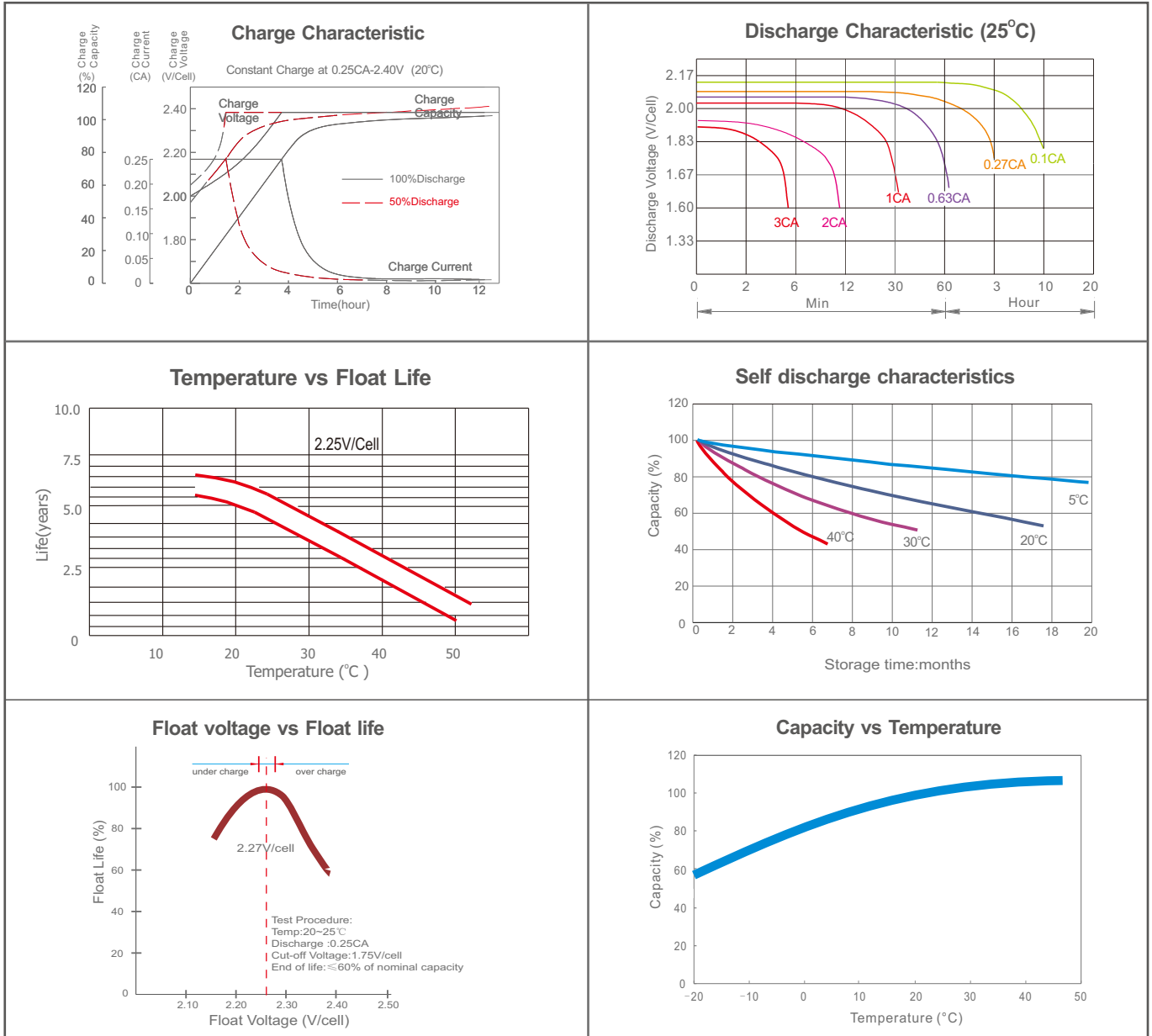


BATTERY DISCHARGE TABLE

Constant Current Discharge Characteristics: Amps (25°C)									
F.V/Time	5min	8min	10min	15min	20min	30min	45min	60min	90min
1.60V	38.0	30.3	27.0	21.8	15.4	11.0	7.80	6.18	4.93
1.67V	35.5	28.7	25.4	21.0	14.5	10.6	7.58	6.06	4.76
1.70V	34.4	28.1	24.6	20.4	14.1	10.4	7.45	5.95	4.67
1.75V	33.3	27.0	23.5	19.7	13.4	10.1	7.23	5.81	4.58
1.80V	31.8	25.9	22.1	19.1	13.0	9.64	7.00	5.68	4.50
1.85V	29.7	23.9	20.7	18.0	12.5	9.32	6.77	5.50	4.32

Constant Power Discharge Characteristics: W/cell (25°C)									
F.V/Time	5min	8min	10min	15min	20min	30min	45min	60min	90min
1.60V	65.0	50.3	44.8	37.1	28.3	20.5	14.5	11.5	9.19
1.67V	60.2	48.3	42.9	36.0	26.9	19.9	14.2	11.3	8.92
1.70V	57.0	47.0	41.8	35.3	26.4	19.6	14.0	11.2	8.82
1.75V	55.7	45.9	40.3	34.3	25.4	19.2	13.8	11.1	8.77
1.80V	53.8	44.1	38.4	33.3	24.6	18.5	13.5	10.9	8.71
1.85V	51.8	41.8	36.6	32.1	24.1	18.0	13.1	10.7	8.45

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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