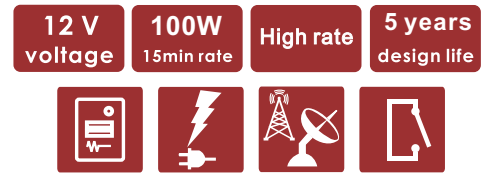


HIGH RATE SERIES VRLA BATTERY

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)	100W
Nominal Capacity (25°C)	28 Ah (C10, 1.80Vpc) 30 Ah (C20, 1.80Vpc)
Dimension (mm)	L175mm x W166mm x H125mm
Approx. Weight	8.0kg
Terminal Type	Terminal T5
Internal Resistance	Approx. 12mΩ (fully charged @ 25°C)
Max. Charge Current	7.5A
Max. Discharge Current (5S)	375 A
Short Circuit Current	1000 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)



ISO9001

ISO14001

 GB/T 28001-2001
 OHSAS 18001:2007

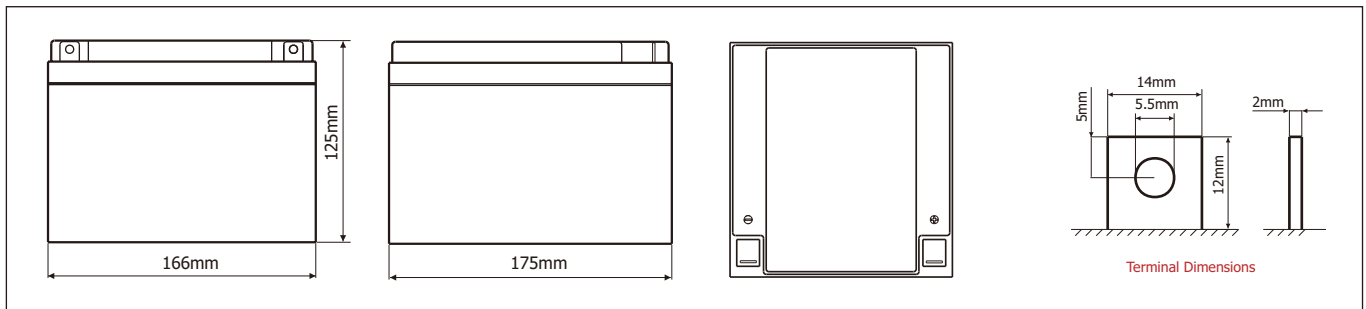
CE

UL

Complied standards

- GB/T19639
- IEC61056
- JIS C8702
- UL1989

BATTERY DIMENSIONS

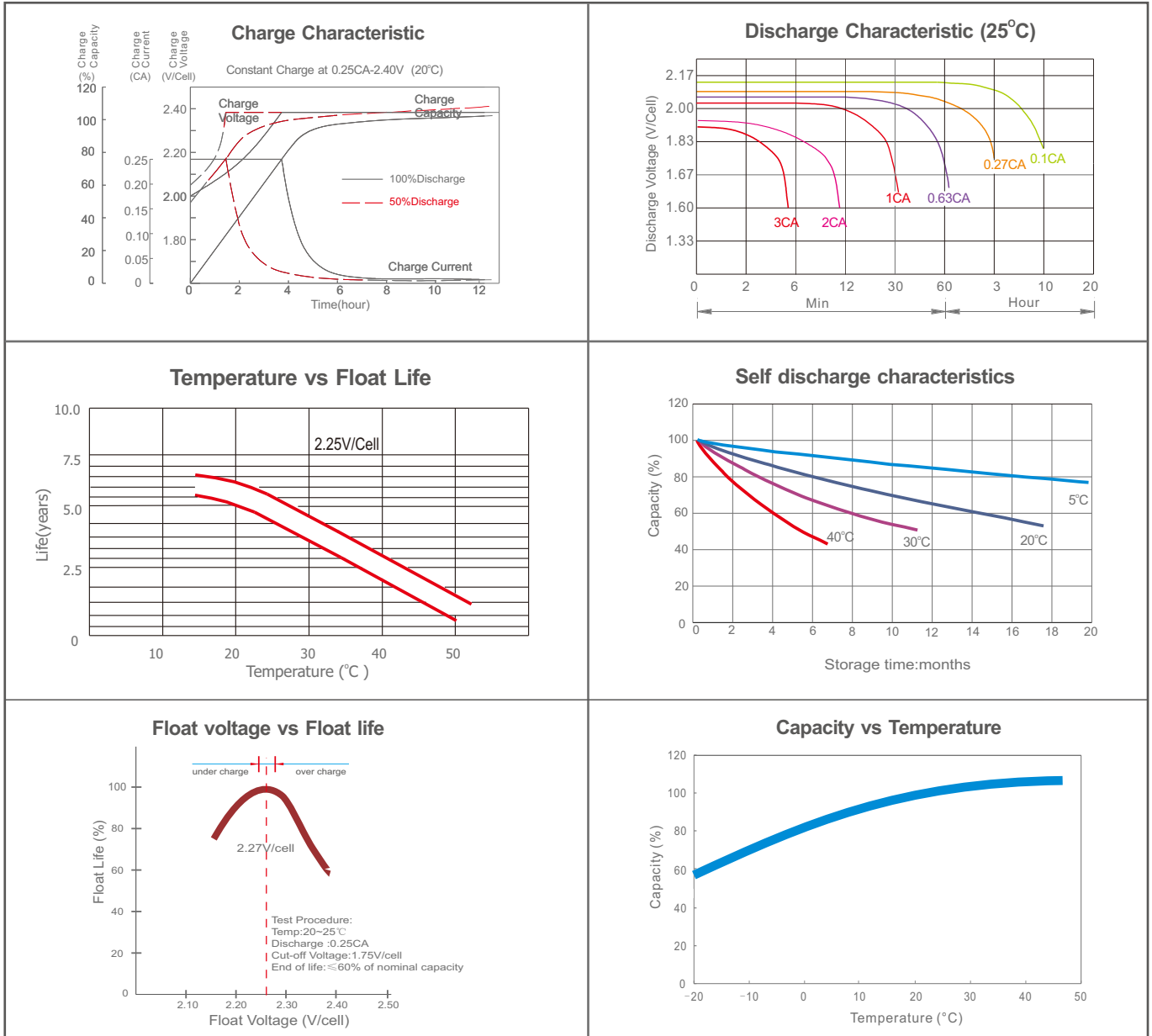


BATTERY DISCHARGE TABLE

Constant Current Discharge Characteristics: Amps (25°C)									
F.V/Time	5min	8min	10min	15min	20min	30min	45min	60min	90min
1.60V	118	105	73.5	55.5	43.9	33.8	20.5	22.0	17.5
1.67V	111	100	69.7	53.4	41.4	32.4	20.1	21.7	17.0
1.70V	102	92.5	67.2	52.1	40.5	29.4	18.9	21.1	16.6
1.75V	100	89.9	65.1	50.4	38.6	27.9	18.1	20.1	15.8
1.80V	89	80.8	62.2	45.8	35.1	25.9	17.0	18.8	14.9
1.85V	79	70.3	59.2	41.2	32.2	23.8	15.8	17.5	13.8

Constant Power Discharge Characteristics: W/cell (25°C)									
F.V/Time	5min	8min	10min	15min	20min	30min	45min	60min	90min
1.60V	207	187	133	101	80.6	60.9	38.2	42.3	33.8
1.67V	200	184	129	100	77.9	59.7	37.9	42.1	33.3
1.70V	188	173	128	99.2	77.2	55.9	36.6	41.3	32.6
1.75V	190	174	128	98.3	76.1	54.2	36.0	40.6	32.0
1.80V	173	158	126	91.2	70.3	51.7	34.3	38.2	30.4
1.85V	157	141	119	82.7	64.7	48.4	32.4	35.9	28.3

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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