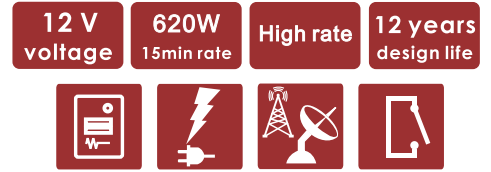


## HIGH RATE SERIES VRLA BATTERY

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 and 12 years+ design life. It is highly suited for high rate UPS/EPS systems and power switchgear applications.



### TECHNICAL SPECIFICATIONS

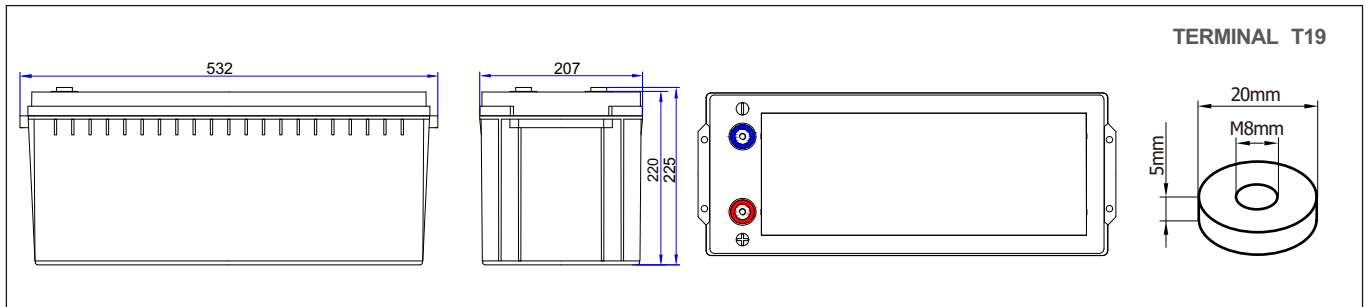
Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (20°C)	12 Years+
Power (15min, 1.67Vpc, 25°C)	620W
Nominal Capacity (25°C)	160 Ah (C3, 1.75Vpc) ; 175 Ah (C5, 1.75Vpc) ; 193 Ah (C10, 1.80Vpc)
Dimension (mm)	L532mm x W207mm x H225mm
Approx. Weight	57.0 kg
Terminal Type	Female Copper Insert M8 (torque:9~11N.m)
Internal Resistance	Approx. 0.0027 Ohm (fully charged @ 25°C)
Max. Charge Current	50A
Max. Discharge Current (5S)	1400 A
Short Circuit Current	3500 A
Self Discharge	Approx. 2.5% per month @ 20°C
Ambient Temperature	Discharge: -20~55°C Charge: -15~40°C Storage: -15~40°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/T19638
- JIS C8704
- BS6290 part 4
- UL1989

### BATTERY DIMENSIONS

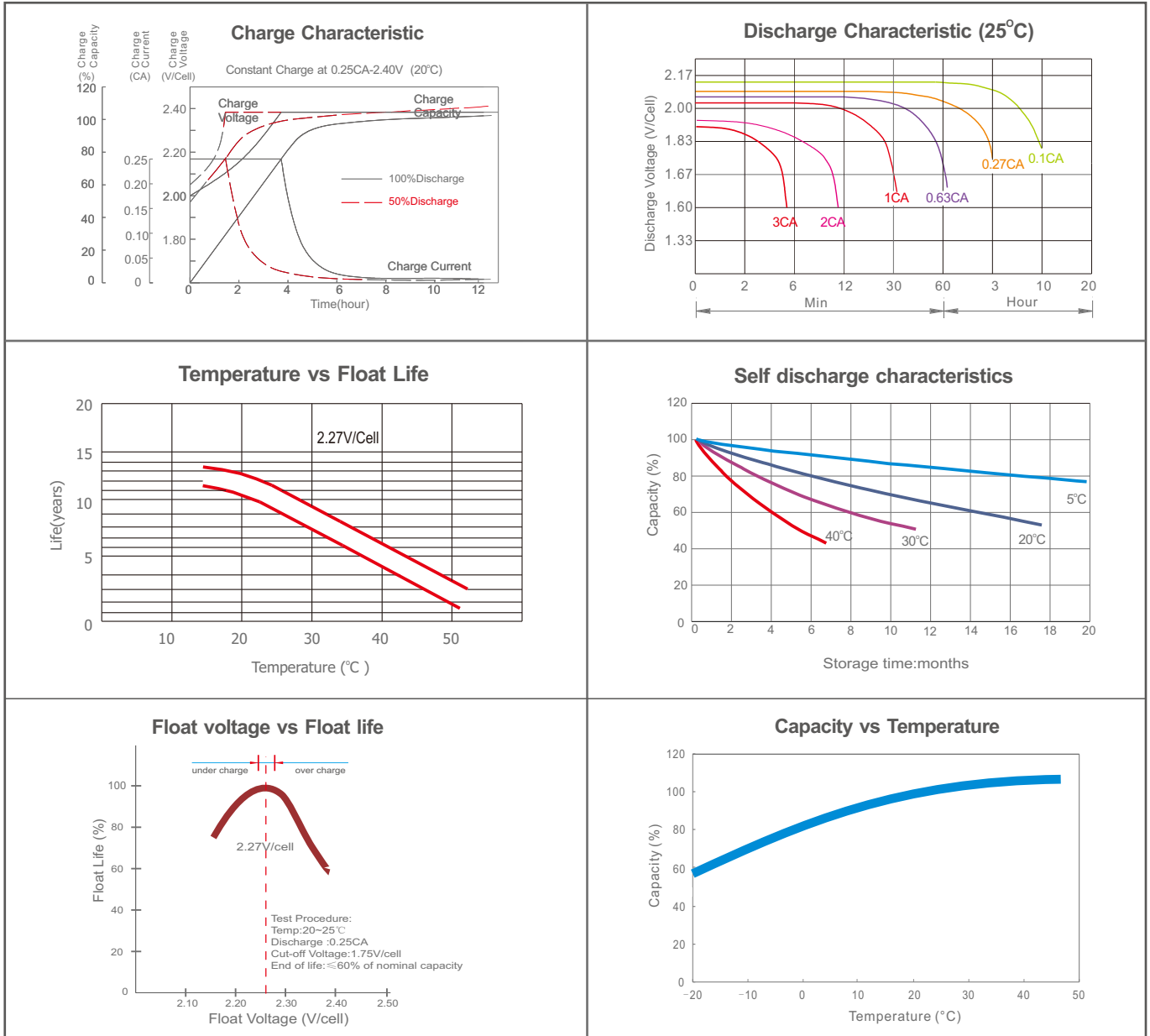


### BATTERY DISCHARGE TABLE

Constant Current Discharge Characteristics: Amps (25°C)									
F.V/Time	5m in	8m in	10m in	15m in	20m in	30m in	45m in	60m in	90m in
1.60V	540	487	439	350	280	208	153	128	95.8
1.67V	503	451	413	327	264	200	146	124	92.1
1.70V	465	425	395	316	257	197	141	122	89.2
1.75V	437	417	370	296	245	189	137	120	87.3
1.80V	401	374	337	277	230	177	131	116	84.0
1.85V	383	322	298	243	205	162	113	108.0	79.8

Constant Power Discharge Characteristics: W/cell (25°C)									
F.V/Time	5m in	8m in	10m in	15m in	20m in	30m in	45m in	60m in	90m in
1.60V	926	854	771	635	516	387	285	240	179
1.67V	882	798	730	620	491	376	278	237	174
1.70V	852	757	681	593	481	370	275	234	171
1.75V	811	717	659	565	450	361	269	232	169
1.80V	785	659	609	509	427	342	258	228	166
1.85V	707	597	537	440	380	319	247	218	159

**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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