



CHARACTERISTICS



Compact size ideal for any type of use.

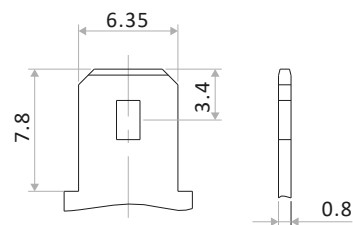
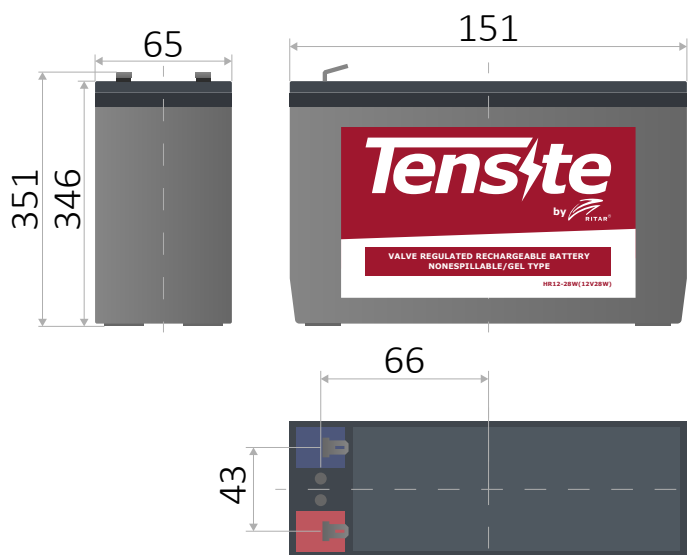


Great performance due its Deep Cycle technology.



Perfect to use as accumulator in photovoltaic installations.

DIMENSIONS



F2 TERMINAL

Length	151±1mm (5.94 inches)
Width	65±1mm (2.56 inches)
Height	94±1mm (3.70 inches)
Total Height	100±1mm (3.94 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

Unit: mm

HR12-28W 12V 28W

GEL SERIES BATTERY

HR (High Rate) series Valve Regulated Lead Acid (VRLA) battery is designed for heavy load discharge applications with 8 years design life in float service. By using strong grids, thick plate and specially designed active material. It is with lower I.R, lower self discharge rate, high power, and longer service life. The HR series battery offers 30% more power output than the standard series. It is suitable for high power standby used, such as datacenter, UPS, EPS etc.



APPLICATION

- Emergency Power System
- Communication equipment
- Telecommunication systems
- Uninterruptible power supplies
- Power tools
- Marine equipment
- Medical equipment
- Solar and wind power system

RECOMMENDATIONS

- Safety Sealing
- Non-spillable construction
- High power density
- Excellent recovery from Deep discharge
- Thick plates and high active materials
- Longer life and low self-discharge design

TECHNICAL SPECIFICATIONS

BATTERY MODEL	Nominal voltage		12V
	Rated capacity (15 min rate)		28W
	Cells Per battery		6
APPROX. WEIGHT	2.08 kg ± 5%		
CAPACITY @ 25°C	28W 15 min-rate to 1.67V per cell		
CHARGING	MAX. DISCHARGE CURRENT 70A (5 sec.)	MAX. CHARGING CURRENT 2.1 A	
INTERNAL RESISTANCE	Approx. 22 mΩ		
TERMINAL	F2		
SHORT CIRCUIT CURRENT	390 A		
DESIGN LIFE	Could reach 8 years		
REFERENCE CAPACITY	C10 6.5 AH		C20 7.0 AH
	STAND USE VOLTAGE 13.7V ~ 13.9V @ 25°C Temperature Compensation: -3mV/°C/Cell		EQUALIZATION VOLTAGE 14.6V ~ 14.8V @ 25°C Temperature Compensation: -4mV/°C/Cell
OPERATING TEMPERATURE RANGE	DISCHARGE -20°C ~ 60°C	CHARGE 0°C ~ 50°C	STORAGE -20°C ~ 60°C
NORMAL OPERATING TEMPERATURE RANGE	25°C ± 5°C		
SELF DISCHARGE	Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C, and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C. Please charge batteries before using.		
CONTAINER MATERIAL	A.B.S. UL94-HB, UL94-V0 Optional.		

BATTERY DISCHARGE TABLE

CONSTANT CURRENT (A) AND CONSTANT POWER (WPC) DISCHARGE TABLE AT 25 °C

F.V / TIME		3 min	5 min	8min	10 min	15 min	20 min	30 min	60 min	90 min
1.60	A	36.51	32.09	25.64	21.98	16.22	12.75	9.082	5.093	3.611
	W	65.61	57.68	46.25	39.79	29.63	23.47	16.79	9.549	6.834
1.65	A	33.13	29.12	23.45	20.26	15.17	12.03	8.606	4.854	3.456
	W	60.29	52.99	42.86	37.21	28.00	22.40	16.16	9.191	6.602
1.70	A	31.70	27.87	22.52	19.53	1.70	11.71	8.393	4.748	3.391
	W	58.21	51.17	41.49	36.11	27.42	21.92	15.75	9.045	6.499
1.75	A	29.36	25.81	20.98	18.30	13.88	11.13	8.042	4.589	3.288
	W	54.44	47.85	39.08	34.26	26.13	21.08	15.28	8.793	6.331
1.80	A	26.90	23.64	19.39	17.07	13.18	10.60	7.691	4.417	3.172
	W	50.54	44.43	36.56	32.30	24.97	20.25	14.78	8.541	6.164
1.85	A	23.00	20.22	16.52	14.49	11.31	9.208	6.802	3.992	2.901
	W	43.92	38.60	31.59	27.75	21.70	17.75	13.15	7.772	5.661

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