



HGL28-12

12-Volt, 28AH@20HR

Valve Regulated
Lead-Acid Battery

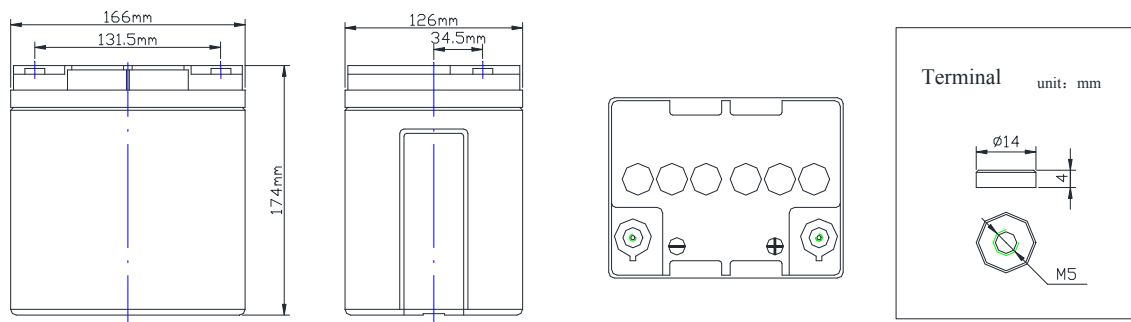
Design for Standby
Power Applications

Life Expectancy:	Application
Expected trickle life: 6-8 years at 25°C.	UPS, Telecom Systems, Switch Boards, Security Systems, Medical Systems, Photovoltaic Systems, Golf Carts.

Specifications		
Nominal Voltage	12V(6 cells per unit)	
Rated Capacity	28AH @20HR-Rate to 1.75V per cell@25°C	
	26AH @10HR-Rate to 1.75V per cell@25°C	
	23.8AH @5HR-Rate to 1.70V per cell@25°C	
	16.8AH @1HR-Rate to 1.60V per cell@25°C	
Weight	Approx. 8.6kg (18.92lbs.)	
Max. Short-Duration Discharge Current	420 A (5S)	
Internal Resistance of charged battery	Approx. 9.5 mΩ	
Short Circuit Current	1200 A	
Operating Temperature Range		
Nominal Operating Temperature	25°C (77°F)	
Discharge	-15°C~+ 50°C 5°F~122°F	
Charge	-15°C~ +40°C 5°F~104°F	
Storage	-15°C~ +40°C 5°F~104°F	
Capacity affected by Temperature (20 hour rate)	40°C (104°F)	102%
	25°C (77°F)	100%
	0°C (32°F)	85%
	-15°C (5°F)	65%
Capacity loss per month at 20°C	<3%	

Mechanical Specifications		
Overall Height (H)	174±1.5mm	6.85"
Container Height (h)	174±1.5mm	6.85"
Length (L)	166±2.0mm	6.54"
Width (W)	126±2.0mm	4.96"
Terminal	M5 Female threaded terminal	
Terminal Torque	2.0 ~3.0 N.M	
Container Material	Standard	ABS (UL 94-HB)
	Optional	ABS Flame Retardant (UL94-VO)
Sealed Construction	Can be operated in any position without leakage.	
Charge Characteristics		
Trickle use	Initial current	No limit
	Control Voltage	13.5 to 13.8 VDC/unit(25°C)
Cycle use	Initial current	5.6 A or smaller
	Control Voltage	14.40~14.9VDC/unit (25°C)
Charging Temperature Compensation	Cycle use	-4mV/cell/°C
	Float use	-3mV/cell/°C
CAUTION : Do not charge in a sealed container.		

DIMENSIONS (All units shown in mm)



Constant Current Discharge Rating Amperes @ 77°F (25°C)											
Cut off voltage V/cell	15M	30M	45M	1H	2H	3H	5H	8H	10H	12H	20H
1.75V	44	27	20.3	16.5	9.4	6.9	4.7	3.19	2.60	2.22	1.40

Note The above data are average values, and can be obtained with 3 charge/discharge cycles. These are not minimum values.



Fullriver Battery

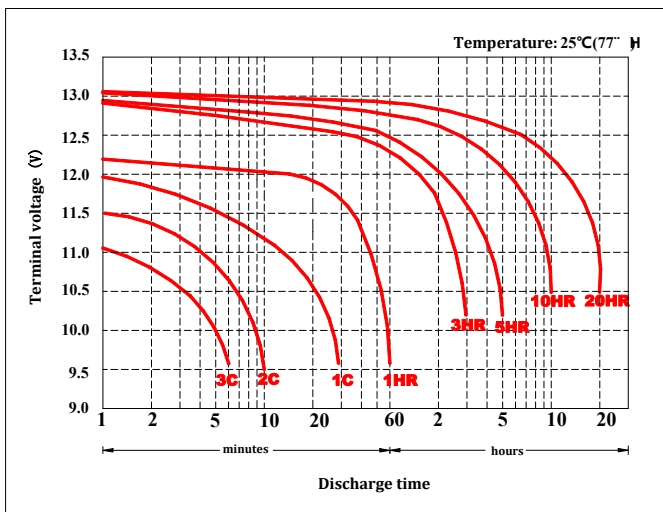
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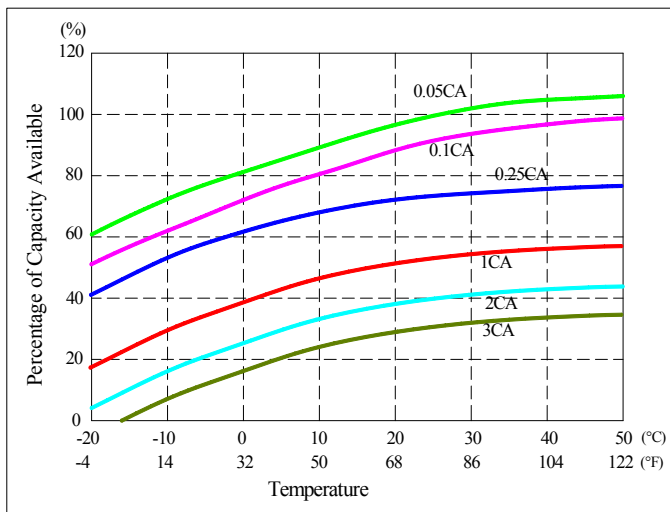
PRODUCT DATA SHEET

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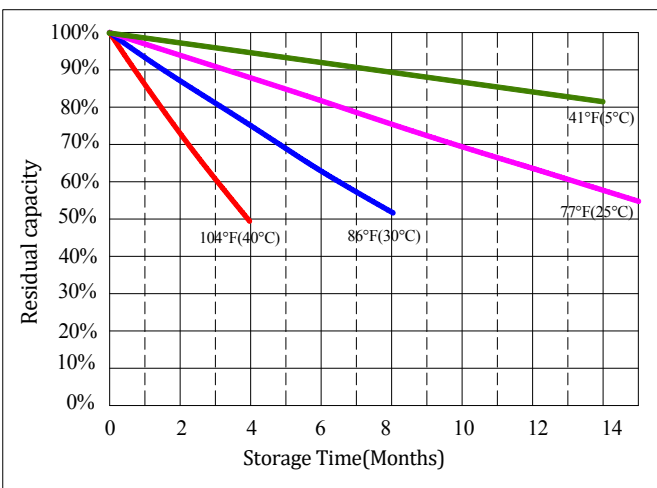
Discharge Characteristic Curves at 25°C (77°F)



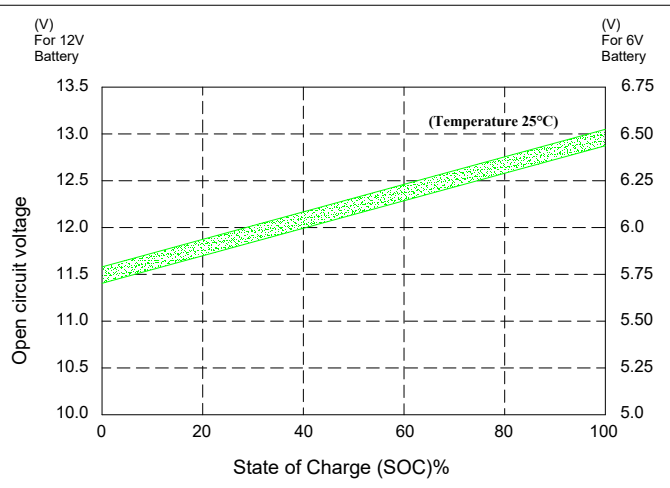
Temperature Effects In Relation to Battery



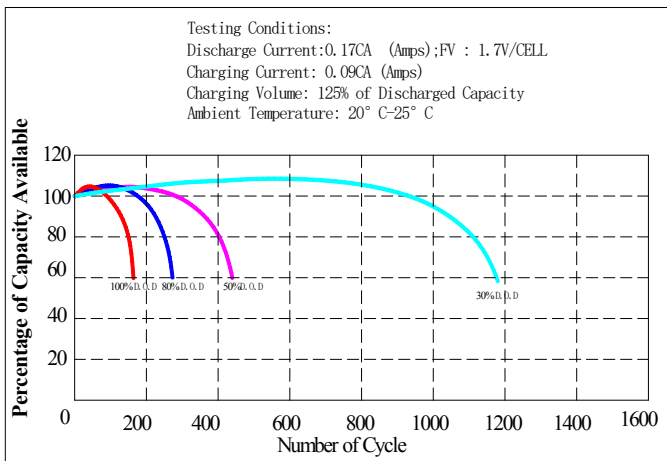
Capacity Retention Characteristic



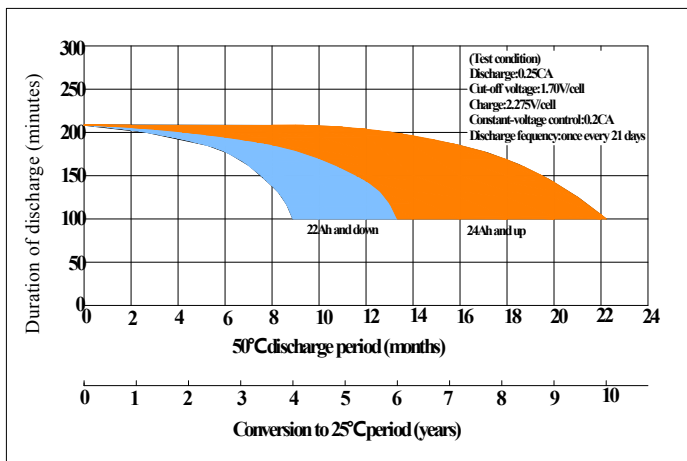
State of Charge (SOC) vs Open Circuit



Cycle Life vs. Depth of Discharge (DOD)



Float Service Life



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