



HGL200-12B

12-Volt, 200AH@20HR

Valve Regulated
Lead-Acid Battery

Design for Standby
Power Applications

Life Expectancy:

Expected trickle life: 6-8 years at 25°C.

Application

UPS, Telecom Systems, Switch Boards, Lawn Mowers, Photovoltaic Systems.

Specifications

Nominal Voltage	12V(6 cells per unit)
Rated Capacity	200AH @20HR-Rate to 1.75V per
	186AH @10HR-Rate to 1.75V per
	170AH @5HR-Rate to 1.70V per
	120AH @1HR-Rate to 1.60V per
Weight	Approx. 59.8kg (131.84lbs.)
Max. Short-Duration Discharge Current	2000 A (5S)
Internal Resistance of charged battery	Approx. 2.2 mΩ
Short Circuit Current	5000 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

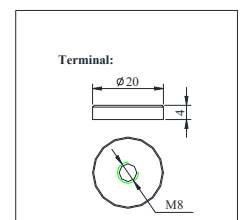
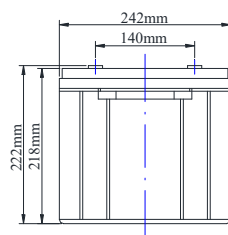
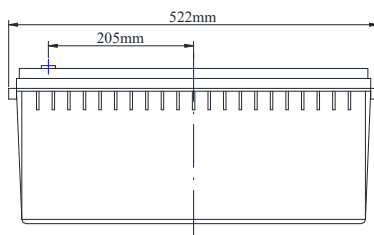
Overall Height (H)	222±2.0mm	8.74"
Container Height (h)	218±2.0mm	8.58"
Length (L)	522±2.0mm	20.55"
Width (W)	242±2.0mm	9.53"
Terminal	M8 Female threaded terminal	
Terminal Torque	7.0 ~ 9.0 N.M	
Container Material	Standard	ABS (UL 94-HB)
	Optional	ABS Flame Retardant (UL94-VO)
Sealed Construction	Can 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	50 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	300	198	142.2	114.2	64.7	49.0	33.3	22.75	18.60	15.83	10.00

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

Fullriver Battery

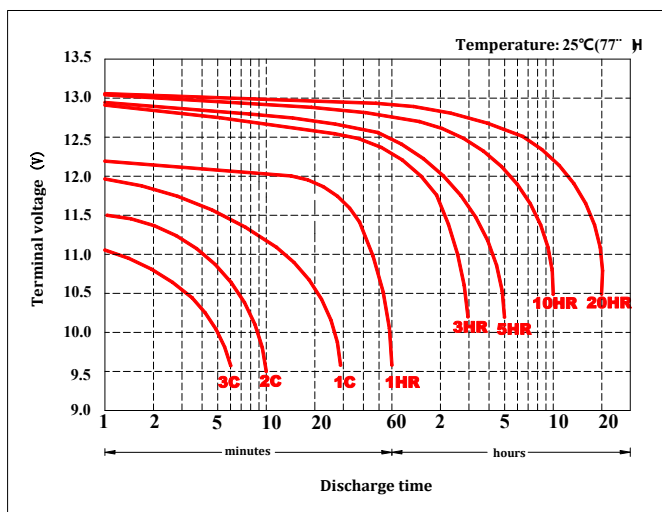
www.fullriver.com

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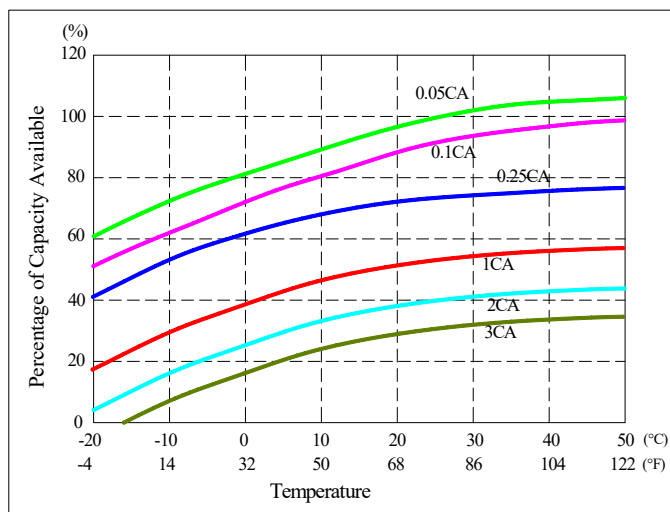


PRODUCT DATA SHEET

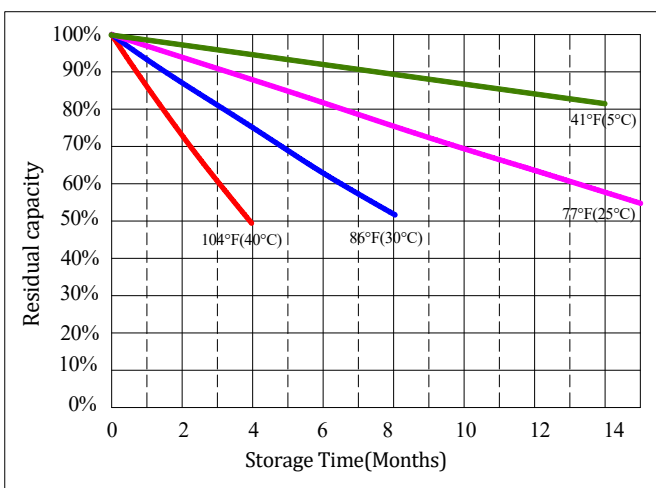
Discharge Characteristic Curves at 25°C (77°F)



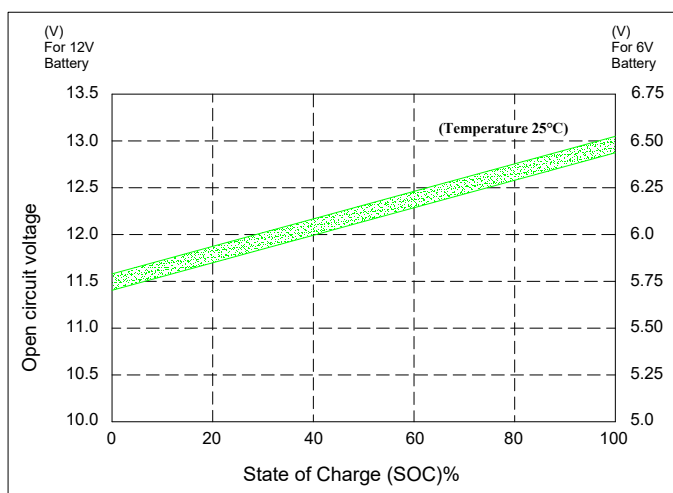
Temperature Effects In Relation to Battery



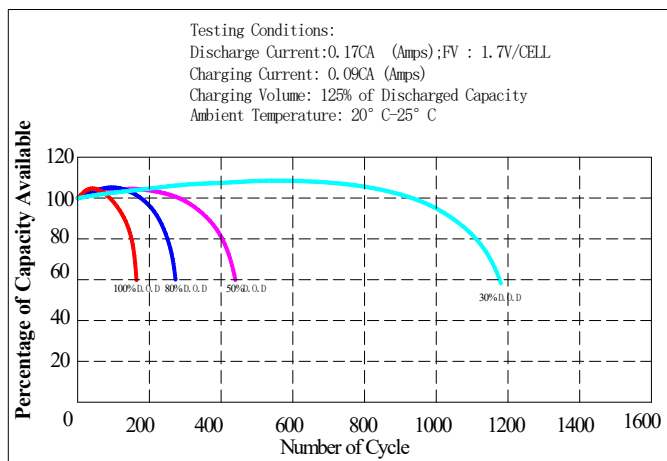
Capacity Retention Characteristic



State of Charge(SOC) vs Open Circuit



Cycle Life vs. Depth of Discharge(DOD)



Float Service Life

