

Features

HR High Rate Discharge Series:

- Excellent high-rate discharge characteristics that ensure reliable performance in UPS and other high-rate discharge applications for up to 10 years service life at 25° C temperatures.
- Interior design performance attributes to ensure cell to cell consistency and high wattage per cell performances.
- Valve Regulated Lead Acid (VRLA), Absorbent Glass Mat (AGM) Technology – Safe operation in any position
- Lead-calcium alloy grids and the use of high purity virgin lead
- Externally sealed Flame retardant ABS case and cover to UL94V-0 for superior performance on sizes over 33Ah is standard (under 33Ah is optional)
- Special high performance terminals designed to increase conductance.
- UL recognized (UR) as a component in UL approved equipment installations under File number MH46202
- Classified as non-spillable status for transportation making it non-hazardous for normal transportation processes. Approved for transport by air. Fulfills US D.O.T., I.A.T.A., F.A.A., C.A.B. handling and shipping requirements
- For more details on special design and construction details see Features and Benefits publication on www.oraclebattery.com



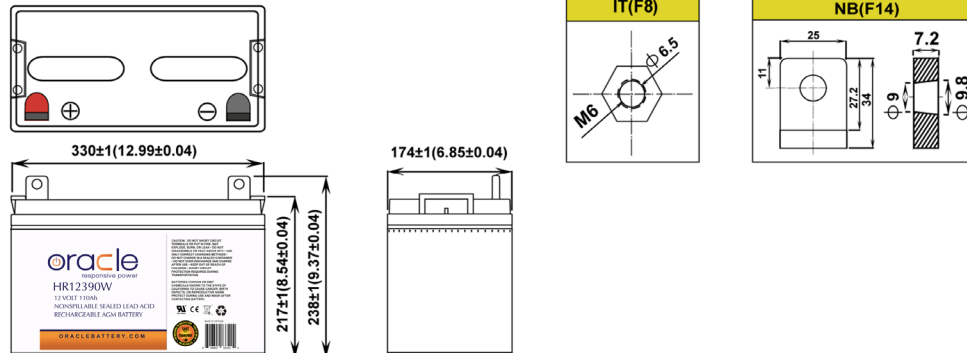
Specification

Cell per unit	6	Ambient Temperature
Nominal Voltage (V)	12	Charge 0°C (32°F) to 40°C (104°F)
Nominal Capacity (watts)	390W/cell @ 15mins rate to 1.6vpc	Discharge -15°C (5°F) to 50°C (122°F)
Weight	Approx 30.9kg (68.12lbs.)	Storage -15°C (5°F) to 40°C (104°F)
Internal Resistance (1KHz)	5mΩ	Max Charge Current
Max Discharge Current (5s)	1200A	Max charge current 33A
Battery Life	Stand by : 7~10 years	Cycle use: Charge voltage: 14.4 to 15.0V
Terminal Type	NB(F14)/IT(F8)	Stand by: Charge voltage: 13.5 to 13.8V
Container Material	ABS 94-HB flame retardant case (94V-0 Optional)	

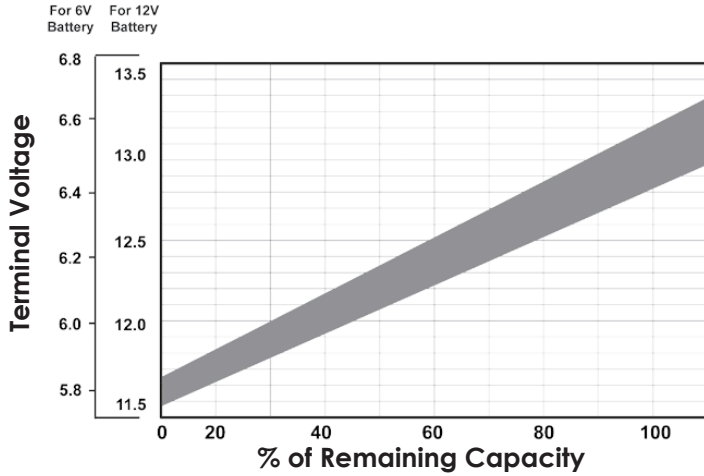


Dimensions

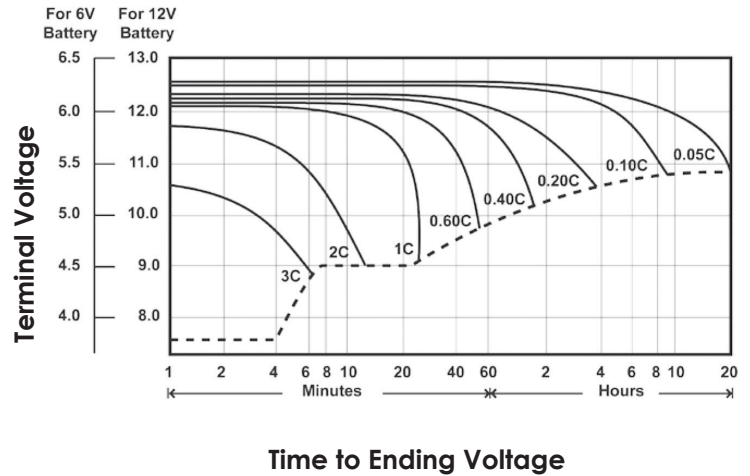
	Length	Width	Height	Total Height
Unit mm	330±1	174±1	217±1	238±1
Unit inch	12.99±0.04	6.85±0.04	8.54±0.04	9.37±0.04



Terminal Voltage



Discharge Times



Charge Voltages

Temperature Compensated Charging	Average Temperature	Cycle Charging Volts Per Cell	Float Charging Volts Per Cell
	-40°C (-40°F)	2.85-2.95	2.38-2.43
	-20°C (-4°F)	2.67-2.77	2.34-2.39
	-10°C (14°F)	2.61-2.71	2.32-2.37
	0°C (32°F)	2.55-2.65	2.30-2.35
	10°C (50°F)	2.49-2.59	2.28-2.33
	20°C (68°F)	2.43-2.53	2.26-2.31
	25°C (77°F)	2.40-2.50	2.25-2.30
	30°C (86°F)	2.37-2.47	2.24-2.29
	40°C (104°F)	2.31-2.41	2.22-2.27
50°C (122°F)	2.25-2.35	2.20-2.25	

Temperature Storage

Average Storage Temperature	Recharging Interval
68°F	Every 9 months
77°F	Every 6 months
95°F	Every 3 months

Constant Current Discharge Characteristics (25°C 77°F)

F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	385.0	265.0	203.0	115.8	64.9	27.20	18.10	12.70	10.50	5.45
1.67V	358.0	243.0	189.0	103.0	61.5	26.10	17.80	12.60	10.30	5.40
1.70V	348.0	235.0	184.0	101.0	60.6	25.70	17.60	12.40	10.20	5.34
1.75V	317.0	217.0	170.0	92.1	56.5	24.80	17.20	12.20	10.10	5.29
1.80V	279.0	196.0	151.0	83.7	50.8	23.70	16.70	12.00	10.00	5.20

Watts Per Cell Discharge Characteristics (25°C 77°F)

F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	775	546	413	242	141	54.7	40.5	25.8	20.7	10.9
1.67V	703	508	391	239	135	54.4	40.5	25.5	20.7	10.9
1.70V	667	490	389	236	132	54.0	40.0	25.2	20.6	10.9
1.75V	603	462	391	230	128	53.5	39.2	25.0	20.5	10.8
1.80V	475	433	342	222	125	52.5	37.5	24.7	20.2	10.6



HR12390W 12V 110Ah
Sealed Lead Acid AGM Battery