

Features

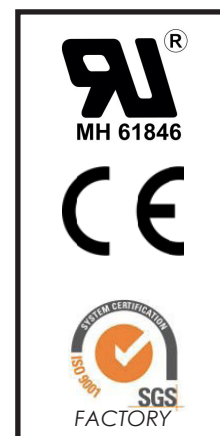
HR High Rate Discharge Series:

- 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 MH61846
- 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



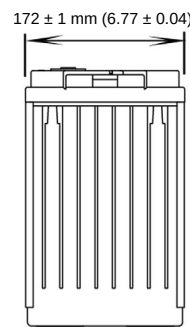
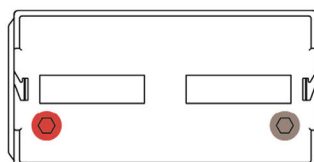
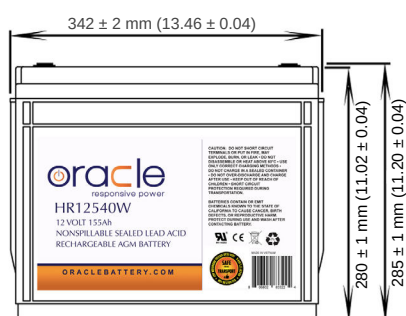
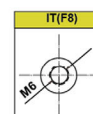
Specification

Cell per unit	6	Ambient Temperature
Nominal Voltage (V)	12	Charge 0°C (32°F) to 40°C (104°F)
Nominal Capacity (watts)	540W/cell @ 15mins rate to 1.6vpc	Discharge -15°C (5°F) to 50°C (122°F)
Weight	Approx 46.5kg (102.3lbs)	Storage -15°C (5°F) to 40°C (104°F)
Internal Resistance (1KHz)	3.2mΩ	Max Charge Current
Max Discharge Current (5s)	2015A	Max charge current 43.5A
Battery Life	Stand by : 7~10 years	Cycle use: Charge voltage: 14.4 to 15.0V
Terminal Type	IT(F8)	Stand by: Charge voltage: 13.5 to 13.8V
Container Material	ABS 94V-0 flame retardant case	

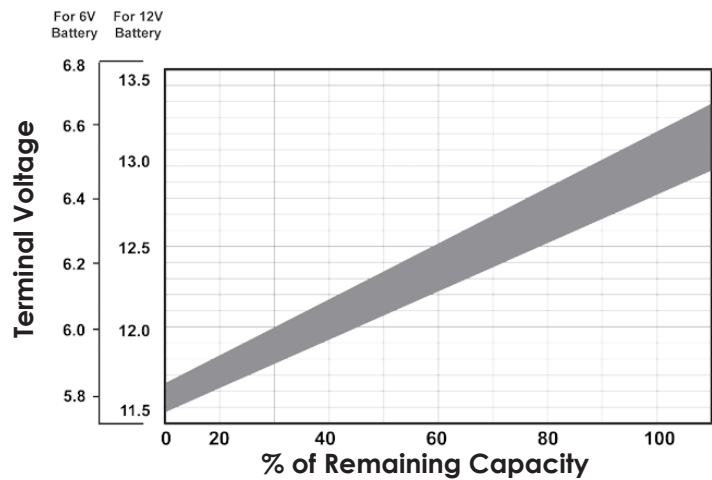


Dimensions

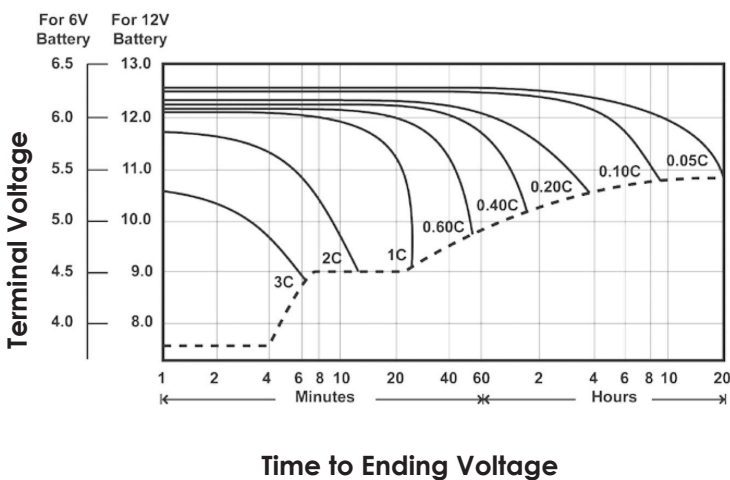
	Length	Width	Height	Total Height
Unit mm	342±1	172±1	280±1	285±1
Unit inch	13.46±0.04	6.77±0.04	11.02±0.04	11.20±0.04



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	533.2	319.6	199.5	114.9	64.8	45.4	29.4	20.1	16.7	8.8
1.67V	490.3	302.9	189.9	110.9	63.1	44.5	28.7	19.6	16.3	8.6
1.70V	447.2	278.3	182.0	107.1	61.1	43.3	28.0	19.2	16.1	8.5
1.75V	400.4	253.3	169.9	102.2	59.1	42.1	27.4	18.8	15.8	8.3
1.80V	344.8	228.5	158.2	96.7	56.7	40.7	26.8	18.5	15.4	8.1

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

F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	954.4	586.5	372.1	217.9	123.6	87.0	57.0	39.4	32.9	17.4
1.67V	894.6	565.9	361.6	213.9	122.6	86.9	56.6	39.1	32.8	17.4
1.70V	824.7	524.2	348.7	207.8	119.3	84.8	55.6	38.5	32.4	17.2
1.75V	745.6	481.9	327.8	199.7	116.2	83.2	54.6	37.9	31.9	17.0
1.80V	646.2	438.7	307.7	190.37	112.1	80.9	53.6	37.4	31.5	16.7



HR12540W 12V 155Ah
Sealed Lead Acid AGM Battery