



RANGE SUMMARY





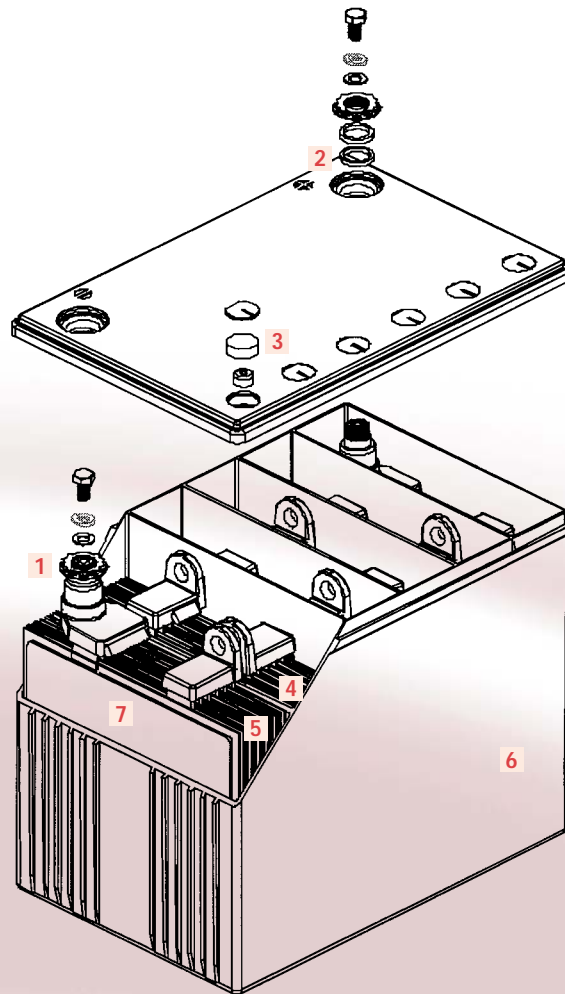
The DataSafe HR range of valve regulated lead acid batteries has been designed to offer superior solutions for the Information Technology and Uninterruptible Power Supply markets.

DataSafe HR is the ideal source of power to protect vital systems. DataSafe HR offers our unsurpassed reputation for excellence and improves upon industry standards for performance.

Gas recombination technology for valve regulated lead acid batteries has totally changed the concept of standby power.

The minimal level of gas evolution allows battery installation in cabinets or on stands, in offices or near main equipment, maximizing space utilization and reducing storage and maintenance costs.

DataSafe HR delivers superior performance, occupying less space than conventional standby power batteries. Thick, ribbed ABS plastic containers and lids provide high mechanical strength and excellent safety features.



Construction

- 1 High conductivity terminals**
Threaded brass insert for maximum conductivity and ease of installation.
- 2 High integrity terminal seal**
Compression grommet designed for long life.
- 3 Self-regulating relief valve**
Low pressure non-return valve prevents ingress of atmospheric oxygen.
- 4 Rugged high performance positive plates**
Grids designed to resist corrosion and prolong active life.
- 5 Balanced negative plates**
Ensure optimum recombination efficiency.
- 6 Tough flame retardant cell containers**
Thick-wall ABS plastic, highly resistant to shock and vibration.
- 7 Separators**
Low resistance microporous glass fibre. The electrolyte is absorbed within this material.

Features & Benefits

- Positive and negative plate grids made of lead-calcium-tin alloy for long life and efficient recharge
- Containers and lids in flame retardant ABS (UL94-V0/L.O.I.>28%)
- Individual Cell Vents
- Flame arrestors built into each cell vent for added safety
- DataSafe HR containers and lids are welded for life to provide a leak-proof seal
- AGM separators - The electrolyte is completely absorbed into the separator. There is no free acid to leak if the battery case is accidentally damaged
- High performance recessed threaded terminals (6mm internal thread)

- Increased volumetric energy density
- Lifting handles available as an optional feature
- Computer optimized electrochemistry for higher power up to 15 minute run time
- 100% initial battery capacity

Standards

- UL recognized - File No MH12544
- All EnerSys Inc. production facilities worldwide are certified to ISO 9001
- Approved for shipping as non-hazardous, non-spillable.

GENERAL SPECIFICATIONS

Type	Watts/Cell		Dimensions						Weight		Short Circuit Current (A)	Max Discharge Current (Amps-2 min rate)	Internal Resistance (mΩ)
	Nominal Voltage (V)	@ 15 min. rate to 1.67 volts end voltage	Height		Width		Length		kg	lbs			
			mm	inch	mm	inch	mm	inch					
HR205	12	204	208	8.2	139	5.5	229	9.0	19.5	43.0	3500	466	3.42
HR300	12	284	208	8.2	174	6.9	261	10.3	27.2	60.0	4400	591	2.70
HR330	12	336	214	8.4	173	6.8	306	12.0	32.2	71.0	5800	695	2.04
HR400	12	381	215	8.5	173	6.8	341	13.4	36.3	80.0	7000	854	1.71
HR500	12	506	277	10.9	173	6.8	341	13.4	49.9	110.0	7150	986	1.68
HR800	6	780	215	8.5	173	6.8	341	13.4	36.3	80.0	6200	1272	0.98

- DataSafe HR UPS batteries are rated at the 15 minute rate to 1.67 volts per cell (Vpc) at 25°C/77°F.
- Normal operating temperature range 23°C/74°F to 27°C/80°F.
- Float charging voltage - 25°C/77°F 13.6-13.7 volts per unit (average) (2.265-2.28 Vpc).
- Charging current DataSafe HR can be safely recharged at high current rates.
- Storage time DataSafe HR batteries can be stored for up to 6 months at 25°C/77°F before a freshening charge is required. At higher temperatures this time interval will be reduced.
- Torque specifications - 60 in. lbs.



Constant Power Discharge (watts per cell) 25°C (77°F)

Cell Type	End Voltage	Standby Time (Minutes)						
		5	10	15	20	30	45	60
HR205	1.75	364.7	247.6	190.2	155.4	114.9	83.5	66.0
	1.70	393.9	262.3	199.7	162.4	119.4	86.3	68.1
	1.67	409.0	269.3	204.1	165.5	121.3	87.6	68.9
	1.65	417.9	273.2	206.4	167.1	122.3	88.1	69.4
	1.63	425.7	276.4	208.2	168.3	123.0	88.6	69.7
	1.60	435.4	279.9	210.0	169.4	123.5	88.9	69.9

Cell Type	End Voltage	Standby Time (Minutes)						
		5	10	15	20	30	45	60
HR300	1.75	499.2	342.8	265.2	222.4	168.1	123.2	98.4
	1.70	540.4	363.4	278.2	231.9	173.9	126.6	100.7
	1.67	560.6	373.1	284.3	236.2	176.5	128.2	101.8
	1.65	571.9	378.3	287.5	238.5	177.8	128.9	102.3
	1.63	581.3	382.5	290.0	240.2	178.9	129.6	102.7
	1.60	591.5	386.8	292.4	241.9	179.9	130.1	103.1

Cell Type	End Voltage	Standby Time (Minutes)						
		5	10	15	20	30	45	60
HR330	1.75	568.8	400.4	313.8	259.9	195.5	144.2	115.0
	1.70	613.4	423.8	329.1	271.1	202.5	148.5	118.0
	1.67	636.6	435.1	336.2	276.1	205.6	150.3	119.3
	1.65	650.4	441.5	340.1	278.8	207.1	151.2	119.9
	1.63	662.7	446.7	343.1	280.8	208.3	151.9	120.4
	1.60	678.2	452.6	346.2	282.8	209.3	152.4	120.7

Cell Type	End Voltage	Standby Time (Minutes)						
		5	10	15	20	30	45	60
HR400	1.75	642.5	457.9	356.2	294.0	220.5	162.4	129.5
	1.70	695.0	484.9	373.4	306.3	228.0	166.9	132.6
	1.67	722.4	498.0	381.5	311.9	231.3	168.8	133.9
	1.65	738.6	505.3	385.8	314.9	233.0	169.8	134.6
	1.63	753.2	511.5	389.3	317.1	234.2	170.5	135.0
	1.60	771.4	518.4	392.8	319.3	235.3	171.0	135.4

Cell Type	End Voltage	Standby Time (Minutes)						
		5	10	15	20	30	45	60
HR500	1.75	829.2	595.0	470.8	392.5	297.5	223.1	180.3
	1.70	897.4	631.4	494.7	409.8	308.1	229.5	184.7
	1.67	932.6	649.2	506.0	417.8	313.0	232.3	186.7
	1.65	953.2	659.2	512.2	422.1	315.5	233.8	187.7
	1.63	971.4	667.5	517.2	425.5	317.5	234.9	188.4
	1.60	993.8	676.9	522.6	429.0	319.3	235.9	189.1

Cell Type	End Voltage	Standby Time (Minutes)						
		5	10	15	20	30	45	60
HR800	1.75	1141.7	877.6	713.4	603.0	463.3	346.3	277.7
	1.70	1259.2	944.0	758.2	636.3	484.6	359.6	287.1
	1.67	1320.5	977.0	779.9	652.0	494.3	365.5	291.2
	1.65	1356.8	995.7	791.9	660.5	499.4	368.5	293.2
	1.63	1388.8	1011.6	801.8	667.4	503.5	370.8	294.7
	1.60	1428.2	1029.9	812.6	674.6	507.4	372.8	296.0



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