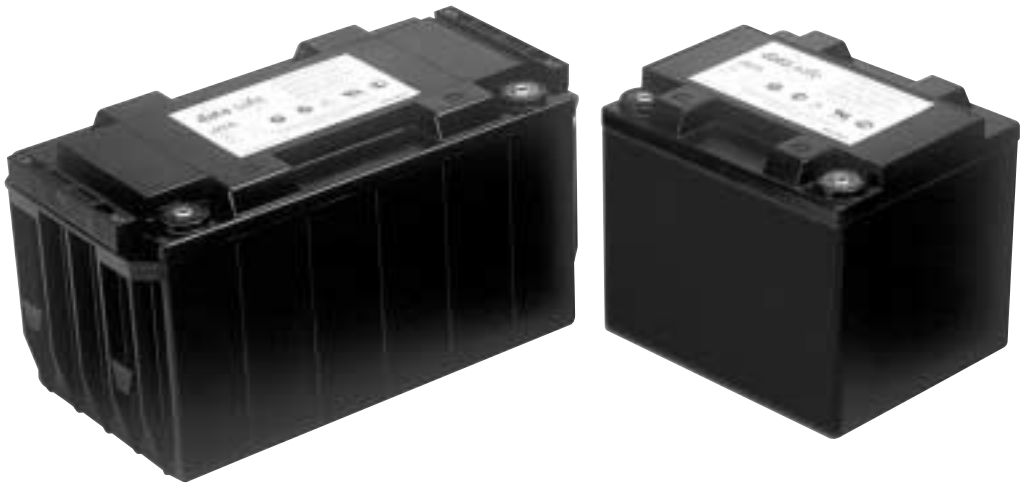
data safe JX

RANGE SUMMARY



EnerSys™

Power/Full Solutions™

Publication No: US-JX-RS-001 - April 2004

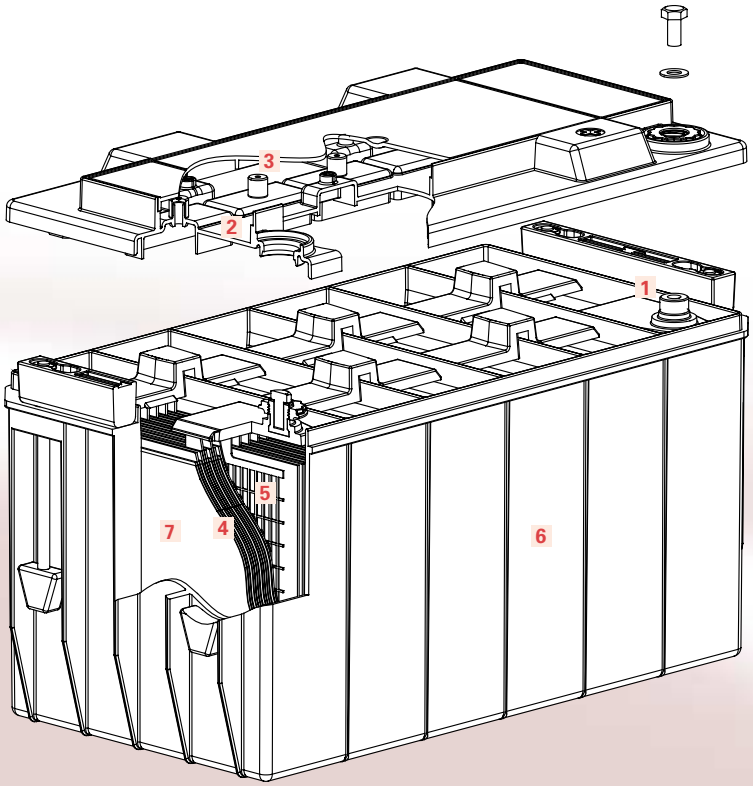
Introduction to . . . JX225 & JX375

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

DataSafe JX is the ideal source of power to protect vital systems. DataSafe JX 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 JX delivers superior performance, occupying less space than conventional standby power batteries. Noryl plastic containers and covers 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
Noryl plastic, highly resistant to shock and vibration

7 Separators
Low resistance microporous glass fiber. The electrolyte is absorbed within this material

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Range Summary

Features & Benefits

- Positive and negative plate grids made of lead-tin alloy for long life and efficient recharge
- Containers and covers in flame retardant Noryl (UL94-V0/L.O.I.>28%)
- Individual cell vents
- DataSafe JX containers and covers are glued 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 container is accidentally damaged
- High performance recessed threaded terminals (0.236"/6mm internal thread)
- Increased volumetric energy density
- Computer optimized electrochemistry for higher power in short duration applications
- 100% initial battery capacity

Operation

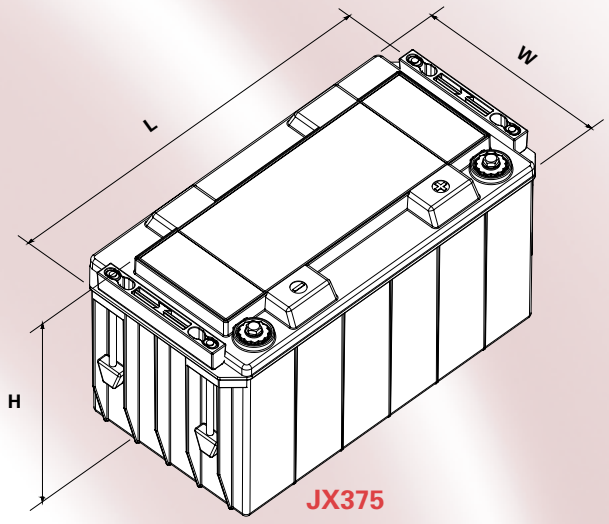
- Normal operating temperature range -40°F (-40°C) to 122°F (50°C)
- Recommended float charge voltage: 2.25-2.27Vpc @ 77°F (25°C) or 2.27-2.29Vpc @ 68°F (20°C)
- Charging current
  The low internal resistance of the DataSafe JX range allows for a higher in-rush current during voltage limited recharge
- Storage time
  DataSafe JX batteries can be stored for up to 12 months at 77°F/25°C before a freshening charge is required.
  At higher temperatures this time interval will be reduced
- Torque specifications
  60 lbf in (6.8 Nm) ±5%
- Built-in lifting handles for easy installation (JX375 only)

Standards

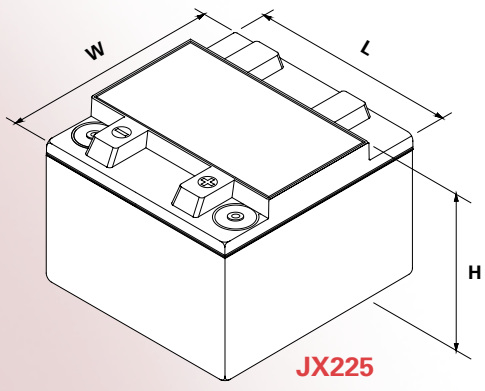
- Recognized by UL (UL standard 1989)
- Approved for shipping as non-hazardous, non-spillable - per IATA Special Provision A67 and 49 CFR
- Manufactured in EnerSys production facilities certified to ISO 9001:2000

GENERAL SPECIFICATIONS

Type	Nominal Voltage (V)	Watts/Cell 15 min. rate to 1.67 volts at 25°C (77°F)	Nominal Dimensions Length mm	Length inch	Width mm	Width inch	Height mm	Height inch	Typical Weight kg	Typical Weight lbs	Short Circuit Current (A)	Internal Resistance (mΩ)
JX225	12	224	196	7.7	165	6.5	170	6.7	14.5	32.0	2565	4.75
JX375	12	375	329	12.9	166	6.5	174	6.9	23.5	51.8	3285	3.70



JX375



JX225

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

Cell Type	End Voltage	Standby Time (Minutes)							
		2	5	10	15	20	30	45	60
JX225	1.75	645	428	285	218	177	131	95	75
	1.70	698	446	293	222	180	133	96	76
	1.67	726	455	296	224	182	133	96	76
	1.65	743	461	298	225	182	134	97	76
	1.63	759	465	299	225	182	134	97	76
	1.60	780	470	300	225	182	134	97	76

Cell Type	End Voltage	Standby Time (Minutes)							
		2	5	10	15	20	30	45	60
JX375	1.75	1017	692	466	357	291	215	155	122
	1.70	1081	726	485	370	301	221	159	125
	1.67	1119	744	494	375	305	223	161	126
	1.65	1144	754	499	378	307	225	161	127
	1.63	1169	763	502	381	308	225	162	127
	1.60	1205	774	506	382	310	226	162	127

Constant Current Discharge (Amperes) at 77°F (25°C)

Cell Type	End Voltage	Standby Time (Minutes)							
		2	5	10	15	20	30	45	60
JX225	1.75	327	216	143	109	89	65	47	37
	1.70	361	230	150	113	91	66	48	37
	1.67	382	238	153	114	92	67	48	38
	1.65	395	242	154	115	93	67	48	38
	1.63	409	246	156	116	93	68	48	38
	1.60	428	251	157	117	94	68	49	38

Cell Type	End Voltage	Standby Time (Minutes)							
		2	5	10	15	20	30	45	60
JX375	1.75	584	378	248	187	152	111	79	62
	1.70	636	402	260	195	157	114	82	64
	1.67	667	415	266	199	160	116	83	64
	1.65	687	422	269	201	161	116	83	65
	1.63	707	429	271	202	162	117	83	65
	1.60	736	437	274	203	163	117	84	65

EnerSys
Power/Full Solutions™
www.enersys.com

Global Headquarters
P.O. Box 14145
Reading, PA 19612-4145 USA
Tel: +1-610-208-1991
+1-800-538-3627
Fax: +1-610-372-8613

EnerSys EMEA
Brussels, Belgium
Tel: +32 (0)2 247 94 47

EnerSys Asia
Guangdong, China
Tel: +86-755-2689 3639

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