

Independence™**VALVE REGULATED LEAD-ACID****B A T T E R I E S****EnerSys™**

Power/Full Solutions

Telecommunications & Utilities**Description**

The Phoenix is a valve-regulated (sealed) Lead-Calcium battery. The absorbent glass mat (AGM) technology retains the acid between the plates ensuring long life during float operation.

Features

- **Rating-** 90 Ah to 200 Ah at the 20 hour rate.
- **Capacity-** Battery systems are tested to verify 100% capacity prior to shipment.
- **Warranty-** 10 years – 1 year full, 9 years pro-rata warranty.
- **Sealed Construction-** Totally leak proof to prevent acid spills.
 - Battery can be installed on its side.
 - No watering requirements.
- **Gas Recombination-** No venting under normal operation conditions.
 - Outstanding initial recombinant efficiency.
 - Can be used in close proximity to sensitive electronics.
- **Recombinant Technology-** Absorbed Glass Mat (AGM) technology produces low internal resistance and provides high rate performance.
- **Versatility-** Available in prewired cabinets or on traditional racks. The Phoenix can be engineered into the enclosure of the electronics it supports.
- **Economy-** The Phoenix has been engineered as a cost effective solution to your battery requirements.
 - 12 and 6 volt units reduce installation costs and save on expensive floor space.
- **Power Density-** The Phoenix is designed for high power density resulting in minimum size and weight.
- **UL Recognized-** PHX12-90, PHX12-100, PHX12-140, PHX6-200.
- **Not restricted for air transport-** Complies with IATA/ICAO Special Provision A67.
- **Not restricted for surface transport-** Classified as non-hazardous material as related to DOT-CFR Title 49 parts 171-189.
- **Ease of Handling-** Finger holes (handles for PHX12-140) on top cover for easy handling of individual units.

PHOENIX**PHX12-90****PHX12-100****PHX12-140****PHX6-200****Specifications**

PLATE SUSPENSION: Both negative and positive plates are bottom supported

CONTAINER AND COVER: Made from Flame Retardant polypropylene-heat sealed material (UL1778 and UL94-V-0,L.O.I. 28%)

POST SEAL: Cold Forged Lead bushing welded to post

SAFETY VENT: Low pressure self-sealing, pressure relief (2.5 psi max.)

FLOAT VOLTAGE: 2.25-2.30 volts per cell (13.50-13.80 volts per 6 cell unit)

SPECIFIC GRAVITY: 1.300 @ 77°F (25°C)

INTERUNIT CONNECTORS: Optional Lead plated copper bars, and interunit cables

INTERCELL CONNECTORS: Through the partitions to reduce internal resistance

TERMINALS: Receptacle.
Initial torque 70-75 in-lbs.

Capacities-Dimensions-Weights

CELL TYPE	OVERALL DIMENSIONS						WEIGHTS			
	LENGTH		WIDTH		HEIGHT*		UNPACKED		DOMESTIC PACKED	
	in	mm	in	mm	in	mm	lbs	kgs	lbs	kgs
PHX12-90	6.7	169	12.0	305	9.6	244	65.2	29.6	66.5	30.2
PHX12-100	6.9	175	13.2	335	9.8	249	77	34.9	78.8	35.7
PHX12-140	7.0	178	14.1	358	11.9	302	104	47.2	106	48.0
PHX6-200	6.9	175	13.2	335	9.8	249	77	34.9	78.8	35.7
Phoenix Tray 855589	21.9	556	21.0	533	x	x	24		28	

* To top of terminal stud

AVERAGE CELL PERFORMANCE DATA* (Discharge Rates in Amperes**)

TYPE	NOM. Ah CAP. ¹	DISCHARGE RATES														
		8 HR	7 HR	6 HR	5 HR	4 HR	3 HR	2 HR	60 MIN	30 MIN	15 MIN	10 MIN	5 MIN	1 MIN	1MIN ² TO 1.50 VPC	
TO 1.75 END VOLTS PER CELL																
PHX12-90	90	10	11	12	14	17	22	31	56	97	153	188	246	353	532	
PHX12-100	100	11	12	14	16	20	26	36	62	107	178	230	319	436	550	
PHX12-140	140	15	17	20	23	28	36	52	92	150	224	273	356	434	550	
PHX6-200	200	23	26	30	35	42	53	74	126	204	305	369	470	550	550	
TO 1.81 END VOLTS PER CELL																
PHX12-90	90	10	11	12	14	17	21	30	52	90	143	176	226	308	532	
PHX12-100	100	10	12	13	16	19	24	34	61	103	166	206	266	406	550	
PHX12-140	140	15	17	19	23	28	35	50	86	140	210	254	327	379	550	
PHX6-200	200	23	26	29	34	41	52	72	121	193	287	345	434	504	550	
TO 1.84 END VOLTS PER CELL																
PHX12-90	90	10	11	12	14	17	21	29	50	86	134	163	207	282	532	
PHX12-100	100	10	11	12	15	19	24	33	56	95	150	180	250	359	550	
PHX12-140	140	15	17	19	22	27	35	48	83	133	196	236	300	347	550	
PHX6-200	200	22	25	28	33	40	51	69	115	182	267	321	406	470	550	
TO 1.86 END VOLTS PER CELL																
PHX12-90	90	9	10	12	14	16	20	28	48	80	125	152	191	244	532	
PHX12-100	100	10	10	12	15	18	23	32	54	90	136	166	226	346	550	
PHX12-140	140	14	16	19	22	26	34	47	80	126	183	219	276	300	550	
PHX6-200	200	22	24	28	32	39	49	68	113	178	260	310	385	431	550	

*Ampere values listed represent 100% of the cell's initial capacity.

**Includes intercell connector drop.

¹Nominal AMP hour capacity at the 20 hour rate to 1.75 VPC.

²One minute rates to 1.50 VPC should only be used for short circuit calculations and not as performance data.

All data subject to change without notice.



Power/Full Solutions

Represented by:

When ordering new batteries, also remember to properly recycle your old lead batteries. Federal and state regulations require lead-acid batteries be recycled. EnerSys' nationwide service organization can arrange pickup, transportation to and recycling at any one of our company affiliated smelters. Call 1-800-972-7372 for more information.



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