

Independence[™]**VALVE REGULATED LEAD-ACID****B A T T E R I E S***For UPS Applications***Description**

The Phoenix is a valve-regulated (sealed) Lead-Calcium battery designed for use in high rate applications. The absorbent glass mat (AGM) technology retains the acid between the plates and enhances cyclability of the battery during normal UPS operation.

Features

- **Rating**- 300 watts/cell to 575 watts/cell at 15 min. rate to 1.67 VPC.
- **Warranty**- 5 years – 1 year full, 4 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.
 - Special battery room NOT required.
 - 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**- PHX12-300, PHX12-350, PHX12-475, PHX6-660.
- **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 PHX12-475) on top cover for easy handling of individual units.

PHOENIX**PHX12-300****PHX12-350****PHX12-475****PHX6-660****Specifications****PLATES:** Calcium alloy grids**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)**FLOAT VOLTAGE:** 2.25-2.30 volts per cell (13.50-13.80 volts per 6 cell unit)**SPECIFIC GRAVITY:** 1.300**INTERUNIT CONNECTORS:** Optional Lead plated copper bars, and inter-unit cables**INTERCELL CONNECTORS:** Through the partitions to reduce internal resistance**TERMINALS:** 1/4-20 thread receptacle Initial torque 70-75 in-lbs.

Dimensions-Weights

CELL TYPE	OVERALL DIMENSIONS						WEIGHTS - VOLUMES			
	LENGTH		WIDTH		HEIGHT*		UNPACKED		DOMESTIC PACKED	
	in	mm	in	mm	in	mm	lbs	kgs	lbs	kgs
PHX12-300	6.7	169	12.0	305	8.9	226	65.2	29.6	66.5	30.2
PHX12-350	6.9	175	13.2	335	8.9	226	77	34.9	78.8	35.7
PHX12-475	6.9	175	14.1	358	11.0	279	104	47.2	106	48.0
PHX6-660	6.9	175	13.2	335	8.9	226	77	34.9	78.8	35.7

* To top of terminal

AVERAGE CELL PERFORMANCE DATA* (Discharge Rates in KW/Cell**)

TYPE	5 MIN	10 MIN	11 MIN	12 MIN	13 MIN	14 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN	2 HR	4 HR
TO 1.75 END VOLTS PER CELL													
PHX12-300	.433	.337	.324	.312	.300	.291	.282	.246	.190	.100	.075	.057	.032
PHX12-350	.526	.408	.390	.375	.360	.347	.336	.288	.224	.141	.102	.080	.044
PHX12-475	.732	.541	.519	.496	.481	.468	.451	.378	.284	.171	.121	.097	.056
PHX6-660	.707	.624	.610	.597	.583	.568	.553	.476	.382	.236	.175	.141	.081
TO 1.67 END VOLTS PER CELL													
PHX12-300	.490	.371	.353	.337	.323	.311	.300	.257	.196	.100	.075	.057	.032
PHX12-350	.556	.428	.409	.392	.377	.363	.350	.296	.229	.141	.102	.080	.044
PHX12-475	.790	.575	.551	.525	.508	.493	.475	.390	.290	.173	.121	.097	.056
PHX6-660	.747	.659	.642	.625	.608	.591	.575	.496	.395	.236	.175	.141	.081
TO 1.65 END VOLTS PER CELL													
PHX12-300	.503	.376	.357	.341	.326	.313	.302	.259	.196	.100	.075	.057	.032
PHX12-350	.571	.433	.414	.396	.380	.365	.352	.298	.231	.141	.102	.080	.044
PHX12-475	.813	.587	.562	.536	.515	.500	.480	.392	.291	.173	.121	.097	.056
PHX6-660	.766	.670	.652	.635	.618	.601	.584	.503	.398	.236	.175	.141	.081
TO 1.60 END VOLTS PER CELL													
PHX12-300	.532	.387	.367	.349	.334	.320	.309	.264	.196	.100	.075	.057	.032
PHX12-350	.596	.447	.426	.408	.391	.376	.362	.304	.236	.141	.102	.080	.044
PHX12-475	.845	.604	.576	.546	.525	.508	.489	.398	.296	.173	.121	.097	.056
PHX6-660	.802	.696	.677	.659	.641	.623	.605	.519	.408	.236	.175	.141	.081

*KW values listed represent 100% of the initial capacity.

**Includes intercell connector drop.

1.300 S.G. electrolyte at 77°F (25°C)

All data subject to change without notice.



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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