

POWERPS SONIC[®]

TRUSTED BATTERY SOLUTIONS

Pure Lead Series



Data Centers



Telecom



UPS



EPS



Emergency Lighting



Railway Signal



Traffic Signaling



Utility/
Power Station

Critical Power. Zero Compromise.



Pure Lead Series

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Power-Sonic introduces a new generation of Thin Plate Pure Lead (TPPL) Absorbed Glass Mat (AGM) batteries, designed to deliver unmatched reliability, performance, and operational savings.

Pure Lead Series Overview

Unlike one-size-fits-all solutions, our range is divided into two specialised product lines:

PL Series - Pure Lead optimized for long standby life in critical backup applications.

The benchmark in float service reliability. 20 year extended design life and stable standby performance minimise costly replacements and guarantee uptime for critical applications like signaling, telecoms, and utilities.

PLHR Series - Pure Lead High Rate engineered for high power discharge and rapid recharge

Purpose-built for instant energy delivery. High discharge rates, rapid recharge recovery, and superior power density make PLHR the clear choice for mission-critical systems requiring maximum performance on demand.

This dual-series approach ensures you always get the right battery for the right application, reducing lifecycle costs while maximising system performance

Key Benefits of TPPL AGM Technology

- **Extended Service Life:** Fewer replacements lower total cost of ownership.
- **High Power Density:** Thin plate design increases active material surface area for maximum performance.
- **Fast Recharge Capability:** Rapid recovery reduces downtime and improves operational availability.
- **Low Self-Discharge:** Extended shelf life simplifies logistics and lowers maintenance costs.
- **Maintenance-Free:** Sealed AGM design, no watering required.
- **Durability:** Vibration resistance, wide operating temperature range, and leak-proof construction.
- **Sustainability:** Fully recyclable lead-acid technology supports circular economy goals.



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PL Series (Long Standby Life) Specific Advantages

Optimized for Float Service. Guaranteed for the Long Term.

- Optimized for float service in backup power systems
- Extended design life for reduced replacement cycles
- Ideal for signaling, telecoms, and utilities
- Delivers peace of mind where uninterrupted uptime is critical

PL Range Summary Specs

Series	Nominal Voltage	Capacity Range (Ah, 20hr)	Weight Range kg (lbs)	Design Life	Operating Temp (°C)
PL	12V	42Ah – 228Ah	12.5–60.5 (30.9–133.4)	20 years (25°C)	-40 to +65 (discharge)



PLHR Series (High Rate Power) Specific Advantages

When Critical Loads Demand Instant Energy.

- Designed for short-duration, high-power discharge
- Rapid recharge recovery keeps systems ready for the next event
- High energy density for space-constrained installations
- Perfect for industrial UPS, transportation, and data center systems

PLHR Range Summary Specs

Series	Nominal Voltage	Power Range (W/cell)	Weight Range kg (lbs)	Design Life	Operating Temp (°C)
PLHR	12V	260W – 730W	19.5–61.0 (43.0–134.5)	15 years (25°C)	-40 to +65 (discharge)





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PL Series (Long Standby Life)

The benchmark in float service reliability. Extended design life and stable standby performance minimize costly replacements and guarantee uptime for critical applications like emergency power, telecoms, and utilities.

Model	Voltage	Capacity (Ah, 10hr)	Capacity (Ah, 20hr)	Short-Circuit Current (A)	Weight kg (lbs)	Dimensions (mm)	Design Life (25°C)
PL-12420FT	12V	38Ah	42Ah	760	12.5 (27.6)	298x97x184	20 years
PL-12640FT	12V	62Ah	64Ah	1240	19.1 (42.1)	298x97x267	20 years
PL-12940FT	12V	90Ah	94Ah	1800	28.7 (63.3)	405x108x287	20 years
PL-121040FT	12V	100Ah	104Ah	2000	30.08 (67.9)	405x108x287	20 years
PL-121150FT	12V	110Ah	115Ah	2200	36.5 (80.5)	559x125x227	20 years
PL-121560FT	12V	150Ah	156Ah	3000	48.0 (105.8)	559x125x227	20 years
PL-121840FT	12V	170Ah	184Ah	3400	54.2 (119.5)	559x125x227	20 years
PL-122000FT	12V	190Ah	199Ah	3800	57.6 (127.0)	559x125x299	20 years
PL-122280FT	12V	210Ah	228Ah	4200	60.5 (133.4)	559x125x307	20 years

PLHR Series (High Rate Power)

Purpose-built for instant energy delivery. High discharge rates, rapid recharge acceptance, and superior power density make PLHR the clear choice for mission-critical systems like data centers requiring maximum performance on demand.

Model	Voltage	Power (W/cell, 15min)	Capacity (Ah, 20hr)	Resistance (mΩ)	Weight kg (lbs)	Dimensions (mm)	Design Life (25°C)
PLHR-12260FT	12V	260W	65Ah	5.4	19.5 (43.0)	298x97x267	15 years
PLHR-12330	12V	330W	82Ah	4.5	25.3 (55.8)	260x168x208	15 years
PLHR-12405FT	12V	405W	104Ah	4.4	31.5 (69.4)	405x108x287	15 years
PLHR-12450FT	12V	450W	125Ah	4.0	37.7 (83.1)	559x125x227	15 years
PLHR-12500	12V	500W	130Ah	3.6	41.7 (91.9)	340x170x275	15 years
PLHR-12560	12V	560W	135Ah	3.6	43.5 (95.9)	340x170x275	15 years
PLHR-12620	12V	620W	156Ah	3.2	44.8 (98.8)	340x170x275	15 years
PLHR-12620FT	12V	620W	159Ah	3.6	48.5 (106.9)	559 x125x277	15 years
PLHR-12700FT	12V	700W	197Ah	3.0	58.0 (127.9)	559x125x320	15 years
PLHR-12730FT	12V	730W	208Ah	3.0	61.0 (134.5)	571x125x320	15 years



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Applications / Use Case Matrix

Application	Primary Requirement	Best Fit	Why This Series
Utilities & Power Generation	Emergency backup, grid stability	PL	Proven float performance with robust design.
Telecom & Network	Reliability, low maintenance	PL	Long-life standby reduces site visits and replacement costs.
Security & Emergency Systems	Reliability, no maintenance	PL	Long float service life ensures readiness.
Medical Systems	Standby + power surges	BOTH	PL for long standby, PLHR for high-rate discharge in life-critical systems.
Data Centers (UPS)	Long standby life, stable float service	PLHR	Extended float life ensures uninterrupted uptime and fewer replacements.
Commercial & Industrial Facilities	Short, high-power backup	PLHR	Maximum discharge power for switchgear, UPS, and emergency loads.
Transport Infrastructure	Instant high-current discharge	PLHR	High power density with vibration resistance.

Competitive Advantages

- **Superior Lifecycle ROI:** Extended service life and fewer replacements drive down total cost of ownership.
- **Proven Technology:** TPPL design outperforms conventional AGM and gel in both power delivery and float life.
- **Risk Reduction:** Reliable performance lowers the risk of downtime, costly outages, and system failures.
- **Dual-Series Specialization:** Unlike competitors' single-line solutions, Power-Sonic offers PL and PLHR, giving engineers the right tool for the right job.

Power-Sonic TPPL AGM batteries are engineered to guarantee uptime, reduce replacement cycles, and future-proof your infrastructure.

PL ensures long standby life.
PLHR delivers instant high-rate power.
Both deliver peace of mind.

Speak with our experts today and choose the battery platform designed for zero failures, and zero compromises.





Pure Lead Series

Critical Power. Zero Compromise.

Two specialized series.
One uncompromising platform.

PL (Long Standby Life)

Optimized for float service. Fewer replacements, lower OpEx, and maximum reliability.

PLHR (High Rate Power)

Engineered for high discharge rates and rapid recharge, maximum uptime, reduced downtime risk, and lower total lifecycle cost.

Why Power-Sonic TPPL AGM?

Lower TCO: Fewer replacements, reduced cooling/charging costs

Risk Mitigation: Reliable float (PL) and instant power (PLHR)

Operational Efficiency: Faster recovery, high energy density, smaller footprint

Future-Proof: TPPL technology outperforms AGM/gel

At a Glance...

Voltage: 12V

PL Capacity Range: 42–228Ah

PLHR Power Range: 260–730W_{PC}

Applications: Data centers, telecom, utilities, UPS, medical, signaling, emergency power.

Contact our team today and discover how Power-Sonic TPPL can reduce your total cost of ownership while ensuring your critical systems never fail.

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