POWERSONIC®

TRUSTED BATTERY SOLUTIONS

Network Power

Data Centers

Data Centers

UPS

Telecomms

Critical power solutions

for always-on digital infrastructure

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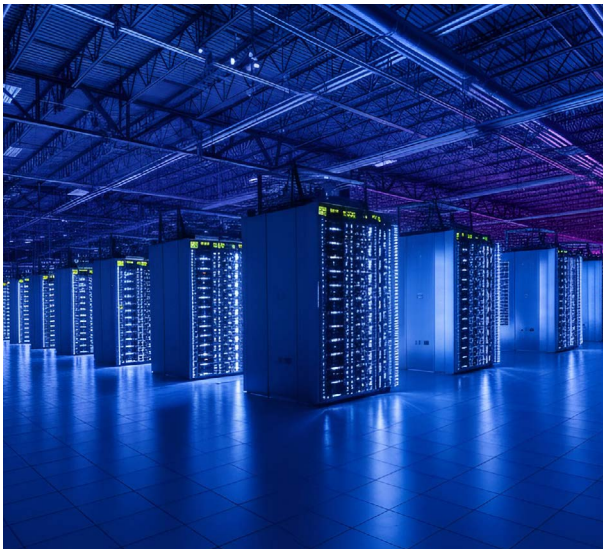
Introduction to Power-Sonic

For over 55 years, Power-Sonic has been at the forefront of energy storage solutions, delivering advanced battery technologies trusted worldwide.

With a proven legacy of reliability, we provide sealed lead-acid and lithium batteries engineered for demanding environments. Our expertise, stringent quality standards, and global supply chain services make us the partner of choice for OEMs, integrators and data center operators. In data center applications, Power-Sonic helps safeguard uptime and protect critical digital infrastructure with dependable, application-engineered power.

TRUSTED
55+
YEARS



Critical power solutions for always-on digital infrastructure

When your data center is the backbone of digital services, power loss is not an option. From hyperscale facilities and colocation sites to enterprise and edge data centers, every rack, row and white space depends on clean, reliable backup power.

Power-Sonic's Network Power portfolio for Data Centers combines Thin Plate Pure Lead (TPPL) AGM, high-rate AGM and front terminal AGM technologies to deliver high performance, long service life and ease of maintenance across the entire facility.

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Four complementary battery platforms.
One resilient data center.

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

PL Series (Pure Lead Long Standby Life) optimized for long standby life in critical backup applications.

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

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

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 requiring maximum performance on demand.

PGFT Series (Front Terminal AGM) designed for space-efficient rack-mounted backup in data centers.

Front-access terminals and a compact footprint simplify installation and servicing in racks. High energy density and robust AGM construction deliver reliable backup for rack-mount UPS, network equipment and edge infrastructure.

PHR Series (High-Rate AGM) designed for rapid discharge performance in compact 12V monobloc formats.

Low internal resistance, strong power density and broad size coverage make PHR a practical choice for smaller UPS, distributed critical loads and auxiliary backup where fast power delivery matters.

Powering the modern data center from core to edge

Data center operators face constant pressure to increase uptime, boost energy efficiency and reduce lifecycle costs, often within tight space and cooling constraints.

Power-Sonic's battery solutions help you:

- **Protect uptime** with proven performance in float and high-rate discharge conditions.
- **Optimize footprint** with high energy and power density for space-constrained white space.
- **Control lifecycle cost** with extended design life and fewer battery replacements.
- **Simplify maintenance** using sealed, maintenance-free AGM construction and front-access options.
- **Standardize globally** with a coherent platform that supports multi-site and multi-region deployments.

Whether you are designing a new facility or refreshing legacy battery rooms, Power-Sonic gives you a clear upgrade path from conventional VRLA to higher performance TPPL and front terminal solutions.

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Four battery platforms engineered for data centers

PL Series – Pure Lead Long Standby Life (TPPL)

For long-life float service in central UPS and critical backup systems.

The PL Series is engineered for applications where batteries spend most of their life on float, but must deliver guaranteed performance when an outage occurs.

Key characteristics:

- **Thin Plate Pure Lead (TPPL) technology** for superior float performance and reliability.
- **Extended 20-year design life** (at 25°C) reduces replacement cycles and planned downtime.
- **Excellent performance** in longer backup durations typical of central UPS systems.
- **Robust construction** for use in demanding data center environments.

Why the PL Series fits data centers:

- **Ideal for supporting and auxiliary systems**, control power, protection relays, DC systems and long-duration backup where float performance is critical.
- **Minimizes total cost of ownership (TCO)** by reducing battery replacement, labour and disposal costs.
- **Supports predictable maintenance planning** with stable float characteristics.

Use PL Series for:

- Control and protection systems in power rooms and substations.
- Long-duration ride-through requirements for infrastructure, monitoring and communications.
- Auxiliary and DC systems where float life and low maintenance are more critical than high-rate discharge.

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)

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PLHR Series – Pure Lead High Rate Power (TPPL)

For instant high-rate power and fast recharge in mission-critical UPS.

Where UPS autonomy is measured in minutes but discharge currents are extreme, the PLHR Series delivers. High discharge rates, rapid recharge recovery and superior power density make PLHR the clear choice for mission-critical UPS systems in data centers.

Key characteristics:

- **TPPL design** optimized for short-duration, high-rate power.
- **15-year design life** (at 25°C) for long service in critical infrastructure.
- **High energy density** helps reduce battery footprint in crowded UPS rooms.
- **Rapid recharge recovery**, ensuring batteries are ready for the next event faster.

Why the PLHR Series fits data centers:

- **Ideal for high-power UPS** where the priority is clean, instant energy delivery.
- **Supports tight SLAs**, ensuring continuity for colocation and cloud customers.
- **Enables compact layouts** where floor space is at a premium.

Use PLHR Series for:

- High-power UPS serving white space and network rooms.
- Switchgear and critical distribution where fast, high-current discharge is required.
- Data centers requiring high power, short autonomy backup configurations

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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PGFT Series – Front Terminal AGM for Racks & Edge

For space-efficient, front-access backup in racks, network rooms and edge data centers.

The PGFT Series is a family of front terminal sealed AGM batteries designed for installation in telecom and UPS racks where service access, energy density and layout flexibility matter.

Key characteristics:

- **12V front terminal AGM monoblocs** with capacities from approximately 60Ah to 180Ah (20-hr rate).
- **Front-access terminals simplify installation,** inspection and replacement in rack environments.
- **High energy density** with a compact footprint and easy cable routing.
- **Wide operating temperature range** and robust ABS case for demanding technical rooms.

Why the PGFT Series fits data centers:

- **Perfect for rack-mount and row-based UPS** where front access and fast maintenance reduce downtime
- **Ideal for network and telecom rooms,** IDFs/MDFs and edge / micro data centers.
- **Supports modular expansion;** add strings or racks as white space grows.
- **Complements PL and PLHR** by offering a cost-effective, long-life AGM option for distributed backup.

Use PGFT Series for:

- Rack-level UPS supporting smaller IT clusters or specific customers in colocation environments.
- Network aggregation rooms, core switches, routers and security systems.
- Edge and micro data centers located closer to users for low latency services.

PGFT Range Summary Specs

Series	Nominal Voltage	Capacity Range (Ah, 20hr)	Weight Range kg (lbs)	Design Life	Operating Temp (°C)
PGFT	12V	60.6–180Ah	17.3–50.0 (38.1–110.2)	10–12 years (25°C)	-15 to +50 (discharge)

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PHR Series – High-Rate AGM

For cost-effective high-rate backup in compact UPS and distributed critical loads.

The PHR Series is Power-Sonic's high-rate AGM range for applications that demand rapid energy delivery, low internal resistance and strong power density in standard 12V monobloc formats.

Key characteristics:

- **High-rate AGM design** optimized for short-duration, high-current discharge.
- **Low internal resistance** and strong power density for fast bursts of backup power.
- **Broad 12V range** from 8.5Ah to 155Ah (20-hour rate).
- **Maintenance-free** sealed lead-acid construction with ABS case and multiple terminal options.
- **6 and 12-year design life options** across the range in float service at 25°C / 77°F.

Why the PHR Series fits data centers:

- **Ideal for smaller UPS systems**, distributed critical loads and auxiliary backup where high-rate performance is needed in a conventional block format.
- Offers **a cost-effective alternative** where front-terminal access or TPPL performance is not essential.
- **Complements PLHR and PGFT** across edge, network and cabinet-level deployments.

Use PHR Series for:

- Smaller UPS systems supporting comms rooms, switches and distributed IT loads.
- Auxiliary backup for monitoring, control and security systems requiring faster discharge capability.
- Cost-sensitive edge and micro data center deployments using standard monobloc footprints.

PHR Range Summary Specs

Series	Nominal Voltage	Power Range (W/cell)	Weight Range kg (lbs)	Design Life	Operating Temp (°C)
PHR	12V	37W – 560W	2.4–42.4 (5.3–93.5)	6–12 years (25°C)	-20 to +55 (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)	298×97×184	20 years
PL-12640FT	12V	62Ah	64Ah	1240	19.1 (42.1)	298×97×267	20 years
PL-12940FT	12V	90Ah	94Ah	1800	28.7 (63.3)	405×108×287	20 years
PL-121040FT	12V	100Ah	104Ah	2000	30.08 (67.9)	405×108×287	20 years
PL-121150FT	12V	110Ah	115Ah	2200	36.5 (80.5)	559×125×227	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)	559×125×299	20 years
PL-122280FT	12V	210Ah	228Ah	4200	60.5 (133.4)	559×125×307	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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PGFT Series (Front Terminal AGM)

Front-terminal AGM range engineered for space-efficient rack installations; compact footprints, easy front access and a 10–12 year design life make PGFT a cost-effective choice for rack-mount UPS, network equipment and edge data center backup.

Model	Voltage	Capacity (Ah, 10hr)	Capacity (Ah, 20hr)	Short-Circuit Current (A)	Weight kg (lbs)	Dimensions (mm)	Design Life (25°C)
PGFT-12V55	12V	57.1Ah	60.6Ah	1313	12.5 (27.6)	277×106×222	10–12 years
PGFT-12V75	12V	75Ah	80Ah	1725	26 (57.3)	564×114×187	10–12 years
PGFT-12V110H	12V	101Ah	106Ah	1900	31.5 (69.5)	394×110×286	10–12 years
PGFT-12V150	12V	150Ah	159Ah	2400	46.9 (103.4)	551×110×288	10–12 years
PGFT-12V180	12V	170Ah	180Ah	1530	50 (110.2)	550×125×280	10–12 years

PHR Series (High-Rate AGM)

High-rate AGM range engineered for rapid energy delivery; low internal resistance, broad size coverage and conventional 12V monobloc formats make PHR a practical choice for smaller UPS, distributed critical loads and auxiliary backup in data center environments.

Model	Voltage	Power (W/cell, 15min)	Capacity (Ah, 20hr)	Resistance (mΩ)	Weight kg (lbs)	Dimensions (mm)	Design Life (25°C)
PHR-1236	12V	37W	8.5Ah	238	2.4 (5.29)	151 x 65 x 94	6 years
PHR-1290	12V	93W	20Ah	560	6.36 (14)	182 x 76 x 167	6 years
PHR-12100	12V	101W	28Ah	700	9.1 (20.06)	164 x 125 x 174	6 years
PHR-12150	12V	154W	35Ah	980	10.2 (22.49)	195 x 130 x 164	6 years
PHR-12200	12V	249W	55Ah	1262	17.7 (39.02)	229 x 138 x 200	12 years
PHR-12300	12V	339W	82Ah	1886	24.2 (53.35)	260 x 168 x 208	12 years
PHR-12350	12V	395W	95Ah	2177	28.2 (62.17)	306 x 168 x 208	12 years
PHR-12400	12V	443W	114Ah	2200	31.6 (69.7)	330 x 173 x 213	12 years
PHR-12550	12V	560W	155Ah	2499	42.4 (93.48)	335 x 172 x 275	12 years

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Choosing the right battery for each layer of your data center

Applications / Use Case Matrix

Data center layer / application	Typical requirements	Best Fit	Why This Series?
Data center UPS (central and distributed)	Long standby life, stable float service, high-rate discharge during outages, predictable maintenance	**PLHR Series**	TPPL high-rate design delivers instant power for UPS events while extended design life and stable float performance support long-term uptime and replacement planning.
High-power UPS for critical IT loads	Very high discharge current, short autonomy, rapid recharge between events	**PLHR Series**	Optimised for short-duration, high-rate discharge and rapid recharge recovery, ensuring critical IT loads are protected in high-density, SLA-driven environments.
Rack-mount UPS in white space and network rooms	Space efficiency, front access for service, flexible string configuration	**PGFT Series (with PLHR front-terminal where higher rate is required)**	Front-terminal AGM blocks in a compact footprint simplify installation and maintenance in racks, while 10–12 year design life and optional high-rate TPPL variants support both standard and demanding UPS duties.
Edge, micro and remote data centers	Compact footprint, easy maintenance, reliable performance in varied environments	**PGFT Series, PHR Series or PLHR Series depending on duty profile**	PGFT simplifies rack service, PHR offers a practical compact-block option for cabinet UPS, and PLHR supports sites where the highest-rate UPS performance is required.
Control, monitoring & security systems	Reliable float service, moderate power, extended availability, occasional higher burst loads	**PL Series, PGFT Series or PHR Series**	PL suits long-life float DC systems, PGFT fits rack-based layouts, and PHR adds a cost-effective high-rate option where faster discharge is needed in standard monobloc blocks.
Smaller UPS and auxiliary backup	Compact footprint, rapid discharge capability, cost-effective standard block format	**PHR Series**	High-rate AGM design provides quick bursts of power in conventional 12V monoblocs, making PHR a practical fit for smaller UPS cabinets, distributed critical loads and auxiliary backup.

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Choosing the right battery for each layer of your data center

Different parts of a data center have different backup requirements. Power-Sonic's portfolio lets you match the right battery to each layer:

PLHR

Data Center UPS (central and distributed)

- **Primary requirement:** Long standby life, stable float service and assured power delivery during outages.
- **Best fit: PLHR Series** (High Rate Power).
- **Why?:** Combines extended design life with instant high-rate discharge, making it the clear choice for most data center UPS installations.

PLHR

High-Power UPS for Critical IT Loads

- **Primary requirement:** Very high discharge current, short autonomy, rapid recharge.
- **Best fit: PLHR Series** (High Rate Power).
- **Why?:** TPPL high-rate design provides instant energy delivery and fast recharge to meet tight uptime SLAs.

PLHR PGFT

Rack-Mount UPS in White Space and Network Rooms

- **Primary requirement:** Space efficiency, front access, flexible string configuration.
- **Best fit: PGFT Series** or **PLHR** front-terminal models where high rate is required.
- **Why?:** Front terminal layout simplifies maintenance without moving racks or disturbing cabling.

PLHR PGFT PHR

Edge, Micro and Remote Data Centers

- **Primary requirement:** Compact footprint, easy maintenance, reliable performance in varying environments.
- **Best fit:** PGFT Series for rack deployments, PHR Series for compact cabinet UPS, and PLHR where the highest-rate performance is required.
- **Why:** Front terminal AGM simplifies rack service, while PHR provides a practical standard-block option for remote and distributed backup.

PL PGFT PHR

Control, Monitoring & Security Systems

- **Primary requirement:** Reliable float service, typically lower power but extended availability.
- **Best fit:** PL Series, PGFT Series or PHR Series depending on format and discharge profile.
- **Why:** PL suits long-life float DC systems, PGFT fits rack-based layouts, and PHR adds a cost-effective high-rate option where faster discharge is needed in standard monobloc blocks.

PHR

Smaller UPS and Auxiliary Backup

- **Primary requirement:** Compact footprint, fast discharge capability and cost-effective deployment.
- **Best fit:** PHR Series (High-Rate AGM).
- **Why:** High-rate AGM design delivers rapid bursts of power in conventional 12V monobloc formats, making PHR a practical choice for smaller UPS cabinets and distributed critical loads.

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Data center power portfolio

Technologies

TPPL: **PL and PLHR Series**

Front Terminal AGM: **PGFT Series**

High-Rate AGM: **PHR Series**

Capacity / Power Ranges

PL Series: 42–228Ah (20-hr) front terminal models.

PLHR Series: 65–208Ah (20-hr) with 260–730W/cell high-rate power capability (15-minute rate).

PGFT Series: 60–180Ah (20-hr) across the PGFT-12V55, 12V75, 12V110H, 12V150 and 12V180 models.

PHR Series: Approx. 8.5–155Ah (20-hr) with 37W – 560W (15-minute rate) across compact 12V monoblocs with 6–12 year design life in float service at 25°C / 77°F.

Key application areas

- Central UPS for data halls and facility loads
- High-power UPS for mission-critical IT and network infrastructure.
- Rack-mount UPS in white space, IDF/MDF, network and security rooms.
- Smaller UPS and auxiliary backup for network, control and monitoring systems.
- Edge, micro and remote data centers.

Operational advantages

- High power and energy density for reduced footprint.
- Long float service life to reduce replacement frequency.
- Flexible formats including front terminal for fast, safe access in racks.
- Sealed, maintenance-free AGM construction (no watering).
- Conventional block formats for cost-effective cabinet and distributed deployments

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Why choose Power-Sonic for network power?

- **Decades of experience** in designing and supplying batteries for critical power applications worldwide.
- **Four-series portfolio**: PL for long standby float service, PLHR for premium high-rate TPPL performance, PGFT front terminal AGM for racks and edge, and PHR for compact high-rate AGM backup.
- **Lifecycle value:** extended design life, reduced replacement visits and optimized footprint help lower total cost of ownership.
- **Global reach, local support**: EMEA and global teams provide technical guidance, logistics support and application engineering.
- **System-wide perspective**: from central UPS rooms to edge cabinets, a coordinated portfolio simplifies design, stocking and maintenance.

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CONCENTRIC
Engineering Uptime.

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Schneider Electric

SBA

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Ready to strengthen your data center power strategy?

In mission-critical environments, compromise isn't an option. Power-Sonic's Network Power solutions for data centers give you the flexibility to choose the right battery platform for every layer, without sacrificing reliability or lifecycle performance.

- **PL** ensures long standby life for central infrastructure.
- **PLHR** delivers instant high-rate power for demanding UPS applications.
- **PGFT** brings front-terminal convenience and high energy density to racks and edge sites.
- **PHR** offers cost-effective high-rate AGM performance for smaller UPS and auxiliary backup.

Speak with our team today to configure the optimal combination of PL, PLHR, PGFT and PHR for your data center project, from greenfield builds to retrofit and expansion programmes.

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