

# POWERPS SONIC<sup>®</sup>

TRUSTED BATTERY SOLUTIONS



Traffic  
Signaling

Industrial Automation

## Traffic Infrastructure



**Reliable battery solutions**  
for connected roads and roadside systems

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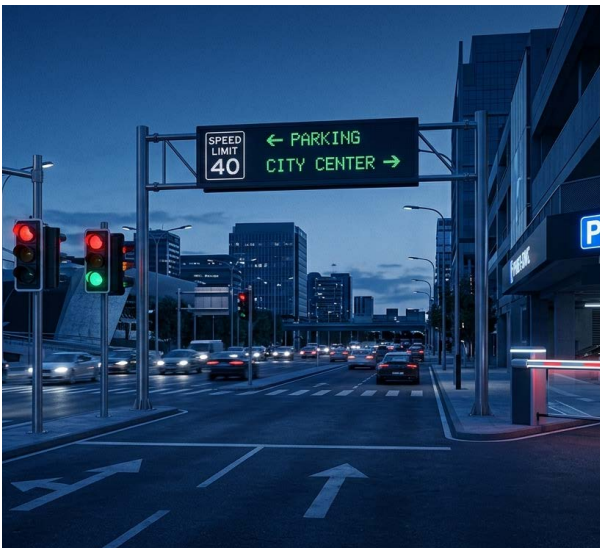


## Introduction to Power-Sonic

**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 technical expertise, stringent quality standards and global supply capabilities make us a trusted partner for OEMs, system integrators and distributors across EMEA. In traffic infrastructure applications, Power-Sonic helps support uptime across connected roads, roadside systems and critical control equipment with dependable, application-engineered backup power.

As traffic infrastructure becomes more connected, more intelligent and more critical to road safety, dependable backup power is essential. From traffic signal controllers and variable message signs to ANPR systems, barrier controls and connected roadside units, today's assets must remain operational when mains power is unstable or interrupted.



Power-Sonic helps OEMs, system integrators, distributors and infrastructure operators select the right battery technology for each application.

Our portfolio combines proven SLA/AGM standby performance, long-life front-terminal solutions, gel batteries for harsher and more cyclic duty environments, advanced LiFePO4 batteries with integrated BMS options, and premium TPPL technology for higher-performance backup roles. The result is a practical, scalable power platform that helps improve uptime, reduce site maintenance, support compliance, and lower whole-life cost across modern traffic infrastructure projects.



# Traffic Infrastructure

**Reliable battery solutions**  
for connected roads and roadside systems

## The right battery platform for every traffic application

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

### PS Series

Cost-effective AGM standby power for everyday roadside systems and compact traffic assets.



### PG Series

Long-life AGM batteries designed to reduce maintenance cycles across fixed traffic infrastructure.



### PGFT Series

Front terminal AGM solutions for larger cabinets, longer runtimes and easier service access.



### DCG Series

Gel batteries engineered for deep-cycle endurance, harsher environments and more demanding roadside duty profiles.



### PSL-SC / PSL-BT / PSL-CP Series

Intelligent LiFePO4 batteries for smart, remote and more cyclic roadside applications.



### PL / PLHR Pure Lead Series

Premium TPPL performance for higher-availability traffic systems where uptime is critical.





# Traffic Infrastructure

**Reliable battery solutions**  
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## Six battery platforms engineered for traffic systems

### PS Series

#### Dependable AGM backup for everyday roadside applications

Designed for reliable standby duty in compact traffic systems, the PS Series provides a practical and cost-effective power solution for everyday roadside infrastructure.



#### Key characteristics:

- Delivers reliable standby support for controllers, cameras and compact roadside cabinets
- Offers a cost-effective platform for standardisation across OEM and replacement requirements
- Maintenance-free AGM construction helps simplify service planning
- Well suited to applications where dependable backup performance is the priority

#### Use PS Series for:

- Traffic signal controllers
- Speed cameras
- Compact ANPR units



### PS Range Summary Specs

Model	Nominal Voltage	Rated Capacity (AH)				Length	Width	Height	Total Height	Aprox Weight	Terminal Type
		20-hr 1.80V/cell	10-hr 1.80V/cell	5-hr 1.75V/cell	1-hr 1.60V/cell						
<b>PS-1270 F2</b>	12	7	6.53	6.05	4.27	151	65	94	100	2.3	F2
<b>PS-12120 F2</b>	12	12	11.2	10.35	7.2	151	98	95	101	3.8	F2
<b>PS-12180 F2</b>	12	18	17	15.7	11.8	182	76	168	168	5.35	F2
<b>PS-12550 M6</b>	12	56.6	55	49.2	36.9	229	138	211	216	15	M6
<b>PS-121000 M6</b>	12	100	95	87	60	306	168	208	214	30.6	M6



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## PG Series

### Long-life AGM performance for fixed traffic infrastructure

The PG Series is engineered to deliver longer service life in fixed roadside installations where dependable standby performance and reduced maintenance demands are essential.



#### Key characteristics:

- Helps reduce planned replacement frequency through longer service-life positioning
- A strong fit for roadside assets where maintenance access is time-consuming and costly
- Familiar AGM technology keeps system design simple and widely accepted
- Ideal where lifecycle value is as important as dependable standby performance



#### Use PG Series for:

- Traffic signal cabinets
- Barrier controllers
- Roadside control panels

### PG Range Summary Specs

Model	Nominal Voltage	Rated Capacity (AH)				Length	Width	Height	Total Height	Aprox Weight	Terminal Type
		20-hr 1.80V/cell	10-hr 1.80V/cell	5-hr 1.75V/cell	1-hr 1.60V/cell						
<b>PG-12V12 F2</b>	12	12	11.2	10.35	7.8	151	98	95	101	3.87	F2
<b>PG-12V21 M5</b>	12	20	18.9	17.45	13.1	182	76	168	168	5.65	M5
<b>PG-12V45 M6</b>	12	45	42.8	37.75	26.1	197	165	170	170	14.5	M6
<b>PG-12V75 M6</b>	12	75	70	66	49.6	348	167	178	178	23.1	M6
<b>PG-12V100 M6</b>	12	100	95	87	60	306	168	208	214	30.6	M6



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## PGFT Series

### Front terminal AGM batteries for larger cabinets and longer runtimes

Built for higher-capacity standby applications, the PGFT Series combines front terminal access with long-life AGM performance to support larger traffic cabinets and critical roadside systems.

#### Key characteristics:

- Front-access design supports faster installation, simpler inspection and easier replacement
- Higher-capacity 12V format is well suited to traffic cabinets and larger roadside systems
- Long-life AGM construction helps lower ongoing maintenance demands
- Ideal where serviceability, cable access and dependable standby runtime are critical



#### Use PGFT Series for:

- Large traffic control cabinets
- Variable Message Signs (VMS)
- Roadside UPS backup



## PGFT Range Summary Specs

Model	Nominal Voltage	Rated Capacity (AH)				Length	Width	Height	Total Height	Aprox Weight	Terminal Type
		20-hr	10-hr	5-hr	1-hr						
		1.80V/cell	1.80V/cell	1.75V/cell	1.60V/cell						
<b>PGFT-12V55 M6</b>	12	60.6	57.1	48.65	36.4	277	106	222	222	17.3	M6
<b>PGFT-12V75 FR M6</b>	12	80	75	67	50.3	564	114	187	187	26	M6
<b>PGFT-12V110H M6</b>	12	105.8	101	88.5	66.4	394	110	286	286	31.5	M6
<b>PGFT-12V150 M6</b>	12	158.8	150	135	101.2	551	110	288	288	46.9	M6
<b>PGFT-12V180 M6</b>	12	180	170	149.5	112.2	550	125	280	280	50	M6



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## DCG Series

**Deep-cycle gel performance for harsher and more demanding roadside applications**

The DCG Series is Power-Sonic's gel VRLA range, designed for applications that demand deep-discharge recovery, strong vibration resistance and dependable cycling performance in harsher operating environments.

### Key characteristics:

- Gel electrolyte supports strong deep-cycle endurance in more demanding duty profiles
- Well suited to installations exposed to vibration, repeated cycling or higher ambient temperatures
- Maintenance-free sealed construction supports safer use in enclosed roadside equipment
- Ideal where standard standby AGM is not always the best fit for the operating profile

### Use DCG Series for:

- Solar-assisted traffic assets
- Remote roadside units
- Portable and temporary traffic systems
- Signalling and warning systems in harsher environments



## DCG Range Summary Specs

Model	Nominal Voltage	Rated Capacity (AH)				Length	Width	Height	Total Height	Aprox Weight	Terminal Type
		20-hr	10-hr	5-hr	1-hr						
		1.80V/cell	1.80V/cell	1.75V/cell	1.60V/cell	mm	mm	mm	mm	kgs.	
<b>DCG12-26</b>	12V	24.40	22.30	19.80	14.00	166	175	125	125	8.50	M5
<b>DCG12-38</b>	12V	38.00	35.00	31.35	22.20	197	165	170	170	12.80	M6
<b>DCG12-70</b>	12V	70.00	60.00	51.50	44.10	260	168	208	214	22.90	M6
<b>DCG12-100</b>	12V	100.00	90.00	82.00	57.00	330	173	212	218	31.20	M8
<b>DCG12-200</b>	12V	200.00	190.00	168.00	120.30	522	240	218	224	62.30	M8



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## PSL-SC / PSL-BT / PSL-CP Series

### Intelligent LiFePO4 power for smart and remote roadside assets

The PSL range brings advanced lithium performance to traffic infrastructure, helping smart and remote assets benefit from lower weight, longer cycle life and improved battery visibility.



#### Key characteristics:

- Lower weight and longer cycle life support modern roadside and smart-city infrastructure
- Faster recharge and stronger usable capacity improve performance in cyclic duty applications
- Integrated BMS protection supports safer, more intelligent lithium deployment
- Bluetooth and communication options provide greater visibility into battery status and system health

#### Use PSL Series for:

- Smart city sensors
- Remote roadside units
- ANPR systems
- Solar-assisted traffic assets



### PSL Range Summary Spec Examples:

Range	Chemistry	Typical voltages	Capacity examples	Key feature	Best suited to
PSL-SC	LiFePO4	12.8V	11Ah, 20Ah, 100Ah	Series/parallel capable BMS design	Remote roadside units, solar-assisted assets, smart infrastructure
PSL-BT	LiFePO4	12.8 / 25.6 / 51.2V	20Ah, 100Ah / 40Ah / 32Ah	Bluetooth battery monitoring	ANPR systems, service-led remote assets, smart city infrastructure
PSL-CP	LiFePO4	12.8V / 25.6V	20Ah, 50Ah / 11Ah, 25Ah	Hardwired communications data	Integrated roadside systems, monitored cabinets, connected field equipment



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## PL / PLHR Pure Lead Series

### Premium TPPL performance for higher-availability traffic systems

Using pure lead technology, the PL and PLHR ranges are designed for premium standby applications where uptime, fast recharge and long-term performance are mission-critical.



#### Key characteristics:

- Long float-life performance supports infrastructure that must remain ready year after year
- High-rate capability suits applications with short-duration, higher-demand discharge requirements
- Fast recharge and strong power density support premium backup roles where uptime is critical
- Best suited to installations where lifecycle performance and reduced service intervention justify a higher-specification solution

#### Use PL / PLHR Series for:

- Premium traffic UPS backup
- Critical roadside communications
- High-availability control systems



## PL Range Summary Spec Examples

Model	Voltage	Capacity (Ah, 10hr)	Capacity (Ah, 20hr)	Resistance (mΩ)	Weight kg (lbs)	Dimensions (mm)	Design Life (25°C)
PL-12420FT	12V	38Ah	42Ah	6.0	12.5 (27.6)	298x97x184	20 years
PL-12640FT	12V	62Ah	64Ah	5.6	19.1 (42.1)	298x97x267	20 years
PL-12940FT	12V	90Ah	94Ah	4.6	28.7 (63.3)	405x108x287	20 years

## PLHR Range Summary Spec Examples

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-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



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## Applications / Use Case Matrix

Application	Typical voltage	Typical capacity range	Recommended chemistry	Key performance requirements	Recommended Power-Sonic range / model
Traffic signal controllers	12V / 24V	7–45Ah	AGM VRLA	Reliable float standby performance, dependable switchover during mains interruption, low maintenance, predictable backup runtime in compact control systems	PS-1270, PS-12120, PS-12180, PS-12550, PS-121000; or PG-12V12 / PG-12V21 where longer-life positioning is preferred
Large traffic control cabinets and roadside UPS backup	12V / 24V	55–180Ah	Long-life AGM / front terminal AGM / selective TPPL	Extended runtime, easier service access, lower planned replacement frequency, stronger long-term standby reliability, and better suitability for cabinet-based backup and UPS-style duty	PGFT-12V55, PGFT-12V75, PGFT-12V110H, PGFT-12V150, PGFT-12V180; PL / PLHR where higher-specification premium backup is justified
Variable Message Signs (VMS / LED roadside signs)	12V / 24V / 48V	45–180Ah	Long-life AGM or LiFePO4	Longer discharge support, cabinet-friendly installation, resilience in outdoor roadside environments, reduced service intervention	PG-12V45, PG-12V75, PGFT range, PSL-SC / PSL-CP families
Speed cameras and ANPR / ALPR systems	12V / 24V	7–40Ah	AGM or LiFePO4	Compact footprint, dependable standby backup, reduced maintenance burden, monitoring capability where remote asset visibility is valuable	PS-1270, PS-12120, PG-12V12; PSL-BT and PSL-CP families where monitoring / communications value is needed
Barrier and gate controllers	12V / 24V	12–50Ah	AGM or LiFePO4	Dependable standby support, tolerance for repeated short-duration duty events, consistent burst power delivery	PS-12120, PS-12180, PG-12V12 / PG-12V21, PSL-SC family
Smart city sensors and IoT roadside units	12V / 24V	7–20Ah	LiFePO4	Long cycle life, lighter weight, lower site maintenance, battery-health visibility for remote infrastructure	PSL-SC 12.8V families (11Ah / 20Ah / 100Ah examples) and PSL-BT families where battery visibility is valuable
Emergency vehicle priority systems	12V / 24V	12–45Ah	Long-life AGM / selective TPPL	Instant power availability, strong standby readiness, reliable support for safety-critical operation, stable high-rate discharge where required	PG-12V12, PG-12V45, PG-12V75; PLHR-12260FT where higher-rate premium backup is justified
Roadside communications and RTUs	12V / 24V / 48V	20–100Ah	LiFePO4, long-life AGM or Gel	Stable backup power in remote cabinets, lower maintenance, improved service visibility, dependable field performance in tougher outdoor conditions	PSL-CP family, PSL-SC family, PGFT range; DCG12-38, DCG12-70 or DCG12-100 for more cyclic / harsher-duty sites
Temporary / portable traffic systems	12V	40–100Ah	LiFePO4 first, AGM / Gel second	Frequent cycling capability, faster recharge, lower carrying weight, stronger suitability for mobile and temporary deployments	PSL-SC / PSL-BT families; secondary: DCG12-26, DCG12-38, DCG12-70 or DCG12-100 subject to duty cycle
Solar-assisted roadside assets	12V / 24V	20–100Ah	LiFePO4, Gel or deep-cycle AGM	Cycle endurance, improved recovery from deeper discharge, suitability for variable charging input and lower-maintenance field operation	PSL-SC family; secondary: DCG12-26, DCG12-38, DCG12-70, DCG12-100, DCG12-200
Remote / cyclic roadside assets in harsher environments	12V / 24V	26–200Ah	Gel VRLA	Deep-cycle endurance, improved recovery from deeper discharge, strong vibration resistance, dependable performance in harsher outdoor or more cyclic duty profiles	DCG12-26, DCG12-38, DCG12-70, DCG12-100, DCG12-200

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## Certifications and standards

Power-Sonic supports traffic infrastructure projects across EMEA with battery platforms designed to align with relevant quality, safety and compliance expectations. Depending on the product selected and the application environment, this may include CE-marked products, UKCA considerations for Great Britain, recognised stationary lead-acid references such as IEC/EN 60896, lithium safety standards including IEC 62133, and transport requirements such as UN 38.3 for lithium batteries. As with any infrastructure application, final compliance should always be verified at system level against the OEM design, installation method and project specification.



## Why Power-Sonic

Power-Sonic combines global manufacturing strength with local EMEA support, helping OEMs, integrators and distributors specify the right battery platform for each traffic application. From proven AGM standby batteries to intelligent LiFePO4 and premium TPPL solutions, our portfolio is designed to support uptime, simplify maintenance and deliver practical whole-life value. With dependable supply, technical guidance and an established EMEA presence, Power-Sonic is well placed to support traffic infrastructure projects from design-in through to replacement demand.





## Traffic Infrastructure

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## Keep traffic infrastructure moving with dependable backup power

Whether you are designing new roadside systems, upgrading existing control cabinets, or standardising battery supply across multiple applications, Power-Sonic can help you select the right chemistry for the job.

- Product selection by application and duty cycle
- AGM, lithium and TPPL fit by infrastructure type
- Service-life and maintenance reduction strategies
- OEM and distributor support across EMEA

Scan to Start  
Your Enquiry



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