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S-Power

S400 Series
Aircraft Solid-State Power Units

Who We Are

AEME GSE is a global pioneer in aviation ground support equipment, supporting the green transformation of airports through practical and innovative energy solutions.

Backed by more than 20 years of expertise in power electronics technology, we offer a comprehensive portfolio that includes eGPUs, solid-state power units, energy management systems, and cable reels.

Our solutions have been widely deployed at major civil airports across the Asia-Pacific region and are now rapidly expanding into global markets.

20+ Years

Of expertise in power industry

7.3+ Million tons

Carbon Emissions Reduced

95,000 m²

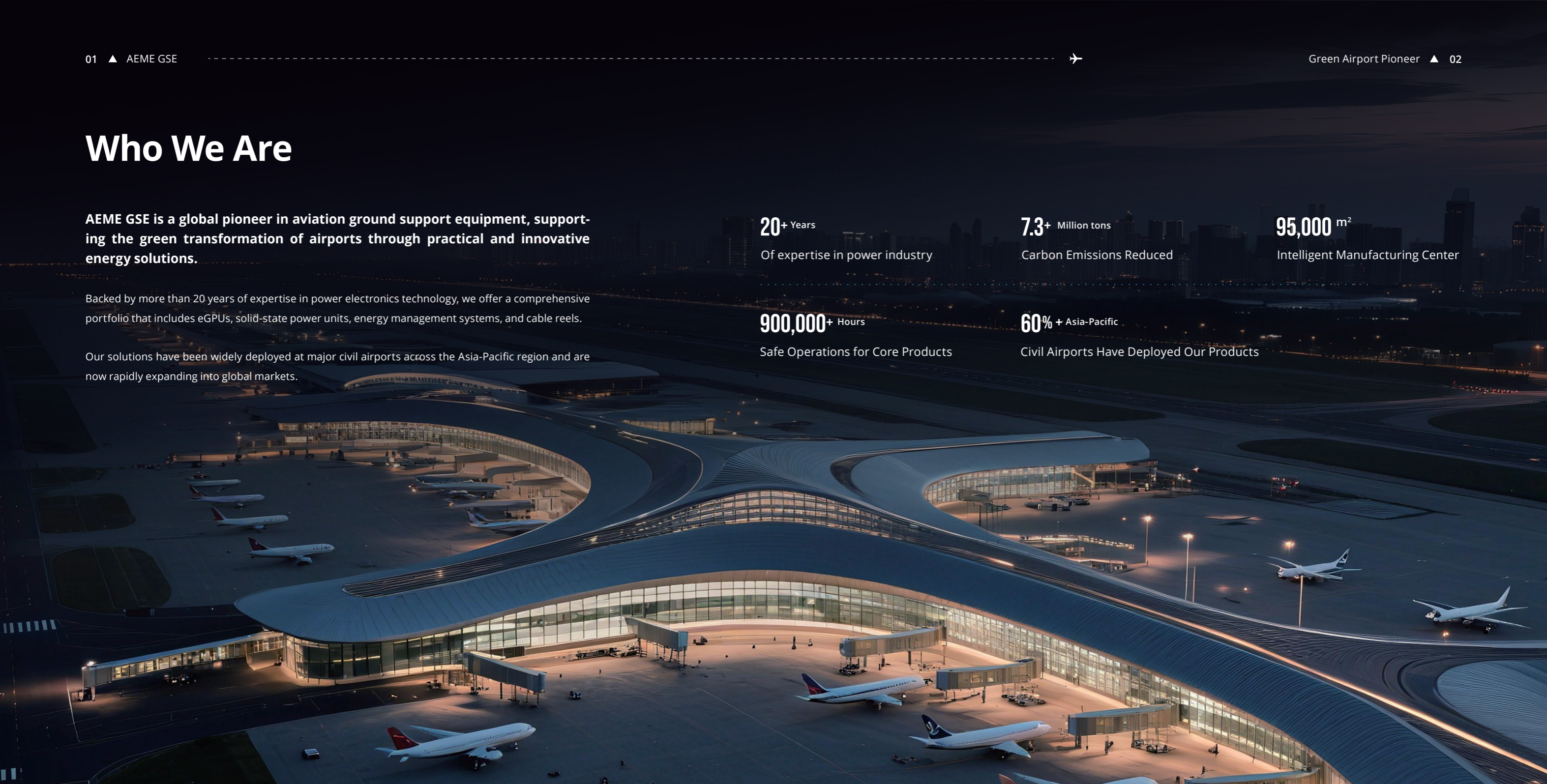
Intelligent Manufacturing Center

900,000+ Hours

Safe Operations for Core Products

60%+ Asia-Pacific

Civil Airports Have Deployed Our Products



S-Power

Reliable 400Hz power with LVRTech™ low-voltage ride-through technology

Designed specifically for civil aviation airports, the S-Power Solid-State Power Units provide a clean, stable, and highly efficient 400Hz power supply, providing a reliable alternative to traditional APUs.

The system combines a Solid-State Power Unit with optional configurations such as a cable reel and towable chassis, adapting seamlessly to various operational scenarios. Ideal for both remote and contact stands, it fully meets the power requirements of a wide range of civil aircraft.



Modular Design and Easy O&M

Compact and modular design allows for flexible installation and easy maintenance.



Cloud Service

Integrated with a self-developed cloud platform for digital equipment management.



Reliable Power Supply

Stable output during grid voltage sags.



Intelligent Diagnostics

Enables full-process diagnostics, precise fault localization, and streamlined maintenance, significantly improving operational efficiency.

S-Power 400

Solid-State Power Unit

AGSP-ASS-090H-H



Consistent 400Hz Power

Compact solid-state GPU delivering reliable 400Hz power.

High Scalability

As the core module of the S-Power series, it offers high scalability for product configuration and expansion.

Flexible Installation

Supports diverse installations, widely applicable to contact/remote stands, and adaptable across mobile/fixed, floor-mounted, and bridge-mounted setups.



S400-A Bridge-Mounted



automatic 28-meter cable reel.



S400-V Fixed



20m output cable.



S400-M Mobile



15m input cable.
10m output cable.



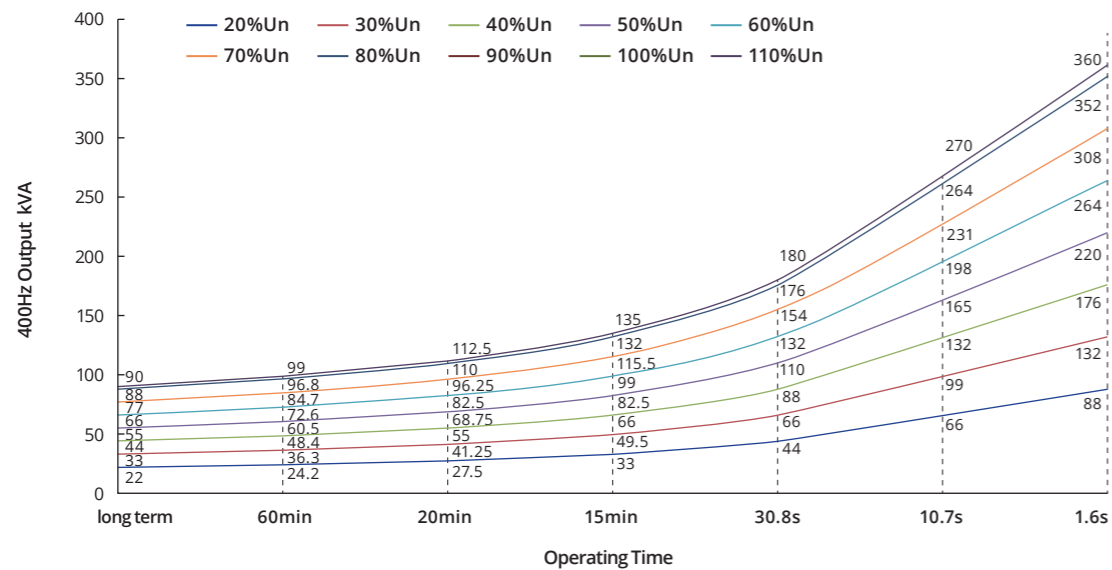
Power assurance when it matters most

The S-Power solid-state power unit integrates technologies such as low-voltage ride-through (LVRTech), space vector pulse width modulation (SVPWM), voltage decoupling control, and dynamic voltage compensation. These functions are designed to support stable voltage output and improve power quality under varying load conditions.

LVRTech: What It Is and How It Works

LVRTech is AEME's independently developed voltage stability solution. It resists grid voltage dips and interruptions, significantly enhancing the reliability of aircraft power supply. When the load power is below 50 kW and the input voltage falls by 60% (input voltage 160 V), the unit can continue operating for up to 2 seconds, delivering reliable performance that surpasses conventional

S-Power LVRTech Output Capability



Extended Ride-Through Duration



When the power is below 50 kW and the input voltage falls by 60% (input voltage 160 V), the unit can continue operating for up to 2 seconds.

Equipment Protection



Prolongs power continuity to prevent faults and damage caused by voltage fluctuations.

Provides Critical Response Time



Offers valuable time for maintenance teams to respond and initiate repairs.

Enhances Operational Continuity



Ensures reliable and continuous operation of airport ground equipment.



400Hz Power Supply Solution

Our 400Hz Power Supply Solution supports global carbon neutrality efforts by enabling APU shutdown during aircraft ground parking.

Flexible Installation

Modular design allows for flexible deployment in various scenarios

High Reliability

Supports low-voltage ride-through functions

High Efficiency

Improved system efficiency

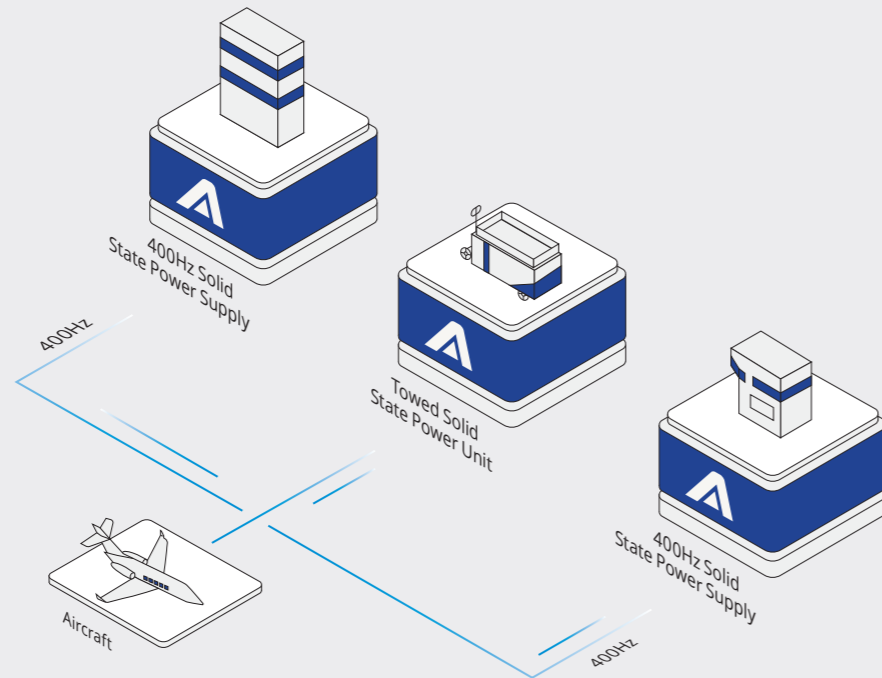
Key Products



ECOTUG



S-Power



AC

Application Cases Solid-State Power Unit



 Incheon, South Korea



 Larnaca, Cyprus



 China Eastern Airlines



 Nanchang International Airport



 Zhejiang Jiaxing International Airport



 Hohhot Shengle International Airport



 Hangzhou International Airport



 Lijiang International Airport

Product	S400	S400-A	S400-V	S400-M
Product Model	AGSP-ASS-090H-H			
AC Input				
Voltage range	3×400Vac±15%			
Frequency range	50/60Hz±5Hz			
Power factor	≥0.99			
Inrush current	None			
400Hz Output				
Rated Voltage	3×115/200Vac			
Rated capacity	90kVA			
Rated frequency range	400Hz			
Power factor	0.7-1			
DC component	±0.1V			
Voltage THD	< 3%			
Crest factor	1.414±4%			
Phase voltage unbalance	< 1%			
Voltage modulation amplitude	< 1%			
Phase shift	120°±1°			
Overload				
125%	Lasts 600s			
150%	Lasts 60s			
200%	Lasts 30s			
300%	Lasts 10s			
400%	Lasts 1s			
Protect				
Level of protection	IP55			
Output over/under voltage protection	Available			
Overload protection	Available			
Internal over-temperature protection	Available			
Output short circuit protection	Available			
Output N line disconnection protection	Available			
Output N-line voltage monitoring	Available			
Leakage current monitoring	Available			
Input over/under voltage protection	Available			
Input overcurrent protection	Available			
Efficiency				
Efficiency	92%			
Environment				
Operating temperature	-40°C~+56°C			
Relative humidity	10%-100% (no condensation)			
Noise level	<65dB(A)			
Dimensions	1050x580x800mm	1580x1050x800mm	1050x580x1300mm (frame included)	1360x1190x1630mm (trailer included)
Weight	442kg (with remote control box)	807kg (with 28/25m cable reel)	502kg (with remote control box, support frame)	560kg (with remote control box, trailer)

*Note: The above specifications are obtained under specific test conditions. Actual performance may vary depending on operating environment. Specifications are subject to change without prior notice.



Why AEME GSE

Technical Innovation



Leveraging advanced technology, AEME leads in green energy storage R&D. Our innovative aircraft ground power supply, ultra-silent modular PCS, and all-in-one systems are widely recognized by the market.

Customer Support



We provide one-stop solutions with proven capabilities in R&D, manufacturing, quality control, and delivery, offering complete support from design to installation and commissioning.

Quality Control



AEME adheres to “quality-first” philosophy. Our team ensures every product meets the highest industry standards.

Delivery Capability



Customer-centric and execution-driven, AEME offers standardized project delivery and O&M systems, ensuring high quality and efficiency from start to finish.