Galaxy 5500 Marine

20/30/40/60/80/100/120 kVA

UPS solutions for marine and offshore environments

20- to 120-kVA, state-of-the-art, three-phase power protection designed to meet a wide range of requirements onboard for ships and offshore platforms.

• Upgradeable power ranges
• Internal maintenance bypass
• Intuitive monitoring
• Parallel capable
• Front-access servicing
• High-power availability

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Now designed specifically for offshore and marine environments

The Galaxy 5500 Marine is a three-phase uninterruptible power supply (UPS) solution designed to handle the harsh conditions found in offshore and marine environments. It addresses specific marine challenges and applications such as mechanical reinforcements to absorb high levels of vibration and shock.

Complete solutions based on extensive marine experience

With 30 years in the offshore and marine market, Schneider Electric has the experience and solutions to meet the strict power protection needs of the offshore and marine environments.

To better serve our customers, we have designed a standard offshore and marine solution which is composed of:

- Uninterruptible power supply
- Transformer IP22
- 30-minute battery backup time
- Other features upon request (contact us)

DNV-type approval

While easy to install and maintain, the Galaxy 5500 Marine still meets marine standards. Our UPS is range tested and validated according to marine standard type approval certificates on all power ratings from 20 to 120 kVA.
Galaxy 5500 Marine: flexible, efficient, and cost-effective

Power availability
Fault tolerance: A built-in, 100-percent-rated static bypass switch prevents interruption by allowing load transfer to utility power during heavy overloads.
Redundant components: Provide increased backup for greater reliability and ensure continuous operation.
High overload capacity: Improves downstream circuit discrimination.

Installation and serviceability
Easy to install: All connections are made through the front, eliminating the need for rear or side access.
Front-access servicing: Simplifies installation and maintenance while minimizing space requirements.
Multiple levels of service: With package or individual service component options, our services are structured so you can choose what APC™ by Schneider Electric will do for you.

Flexible and upgradeable
Expandable power ranges: Scalable power levels to accommodate varying power requirements.
Higher capacity or redundancy: Parallel up to six modules to adapt to increasing power needs.
Simple integration: Easily works with networking and monitoring systems.
Extended backup options: Choice of backup times from five minutes to eight hours to meet varying requirements.
Compatible: Operates with inductive and leading power factor loads.
Field upgradeable: Change from single to parallel capability, increasing total power capacity by simultaneously using multiple UPS units.

Low total cost of ownership
Power factor corrected input: Prevents the need for oversizing cables, circuit breakers, and generators.
Efficient: Up to 94 percent in online double conversion mode.
Flexible design: Allows for a wide range of configurations to suit any operating environment.
Galaxy 5500 features

1. IGBT-based technology for power quality
   Supplies clean, stable power to sensitive loads, ensuring critical power protection, optimum performance, and extended life.

2. Dual input
   Allows for connection to two separate input sources for increased availability.

3. Parallel operation
   Connect as many as six units in parallel for capacity and redundancy to grow with your power requirements.

4. Redundant components
   Provides increased backup for greater reliability and ensures continuous operation.

5. Built-in static and maintenance bypass
   Enables the UPS unit to transfer the load to utility power, without interruption, in the event of heavy overload or fault.

6. Pre-installed network management card
   Allows for easy network integration, compliant with IP v6, SNMP v3, and PowerChute™ suite.

7. Skid marine
   Skid and shock absorbers align with the UPS and are designed for marine environment constraints.

8. Skid offshore
   These take into account offshore environmental constraints.

9. 3 points locked + lock door
   Designed to meet significant vibration and facilitate maintenance phases.
Galaxy 5500 Marine options

Integrated isolation transformer
The Galaxy 5500 Marine can be equipped with an isolation transformer, fully integrated to the UPS unit depending on the customer's galvanic isolation need (output or input). Integrating the transformer directly to the UPS unit saves footprint and provides all the benefits of galvanic isolation, including a very robust buffer between the utility and the critical load.

Options
- Parallel system bypass cabinets
- Communications cards (AP9635CH)
- Covered transformer for isolation and voltage adaptation (440/400 V and 690/400 V)
- Additional protection with optional IEC® filter (C2)
- Synchronization option (to synchronize UPS unit with external source)
- TN-C earthing systems
- Mains 1 and 2 Common
- Empty auxiliary and battery cabinets
Customized UPS solutions to meet your needs

Schneider Electric is your trusted advisor to plan, build, and operate the marine UPS solution adapted to your needs. Our highly skilled project teams customize your UPS based on your requirements:

**Enhanced performance**
Adapted solutions take into account harmonics reduction, earthing systems, galvanic isolation, etc.

**Mechanical UPS modifications**
Impact of specific environments (such as dust, water, rodents) and other requirements (like RAL, top/ bottom entries, locks).

**Environmental adaptation**
Batteries with long autonomy, low-voltage distribution panel and coupling panel, etc.

Designed according to marine certification

Schneider Electric has extensive experience with onboard equipment, so we have developed the Galaxy 5500 Marine to handle harsh environments and meet marine standards:

- Designed according to International Maritime Organization (IMO) and International Association of Classification Societies Ltd. (IACS) marine requirements
- Successfully passes severe marine tests
- Compliant with the requirements of the major classification societies: DNV GL, Lloyds Register, ABS, and others
Expert services for start-up, monitoring, and maintenance

Gain peace of mind about your critical applications.
Schneider Electric Critical Power & Cooling Services (CPCS) provides the highest quality services and solutions by trained and trusted professionals. Our world-class services offer a smart way to build, operate, and maintain your critical applications, ensuring the right people, in the right place, at the right time.

Assembly and Start-up Service
Assembly and Start-up Service by a certified Field Service Engineer (FSE) ensures full factory warranty coverage. A Schneider Electric-certified installation of your solution ensures your equipment is properly and safely configured for optimal performance. This service is offered during normal business hours with scheduling upgrade options available to suit your needs.

Advantage plans
Flexible service packages offer hassle-free system maintenance to improve uptime at a predictable cost. These packages provide your system with the care it needs to operate most efficiently while minimizing downtime. The Advantage Plus, Prime, and Ultra are full-service packages that include technical support; preventive maintenance, onboard, in-port, and on-platform response; and remote monitoring. Response time upgrades are available.

Remote Monitoring Service (RMS)
RMS is an economical and easy-to-use Web-based service that lets you quickly respond to environmental or system changes. Trained technicians provide secure, 24-hour monitoring of your physical infrastructure to diagnose and resolve problems before they become critical.

Preventive maintenance
Preventive maintenance onboard, in-port, and on-platform examinations of your critical systems are designed to prevent problems before they occur and keep your system running at maximum efficiency.

<table>
<thead>
<tr>
<th>Packages</th>
<th>Advantage Plus</th>
<th>Advantage Prime</th>
<th>Advantage Ultra</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual preventive maintenance visit</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Next-business-day on-site response</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Remote monitoring service</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Technical support</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Parts[2]</td>
<td>Discounted rates</td>
<td>Discounted rates</td>
<td>All included</td>
</tr>
<tr>
<td>Labor and travel</td>
<td>Discounted rates</td>
<td>Standard rates</td>
<td>All included</td>
</tr>
</tbody>
</table>

1 Upgrades to an eight-hour or four-hour on-site response time and an upgrade to 24/7 preventive maintenance service may be selected where available.
2 Batteries and proactive replacement of parts not included.
## Technical specifications

### Normal AC supply input

<table>
<thead>
<tr>
<th>Rated power (kVA/kW)</th>
<th>20/18</th>
<th>30/27</th>
<th>40/36</th>
<th>60/54</th>
<th>80/72</th>
<th>100/90</th>
<th>120/108</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input voltage</td>
<td>250 V to 470 V, three-phase</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Normal and bypass AC inputs</td>
<td>Separate, common in option</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequency</td>
<td>45 Hz – 66 Hz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input power factor</td>
<td>&gt; 0.99</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>THDi</td>
<td>&lt; 3% full load</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

### Bypass AC input

| Input voltage range | 380 V, 400 V, 415 V = +/- 10%, 440 V = +6 to -10% |
| Frequency           | 50/60 Hz, +/- 10% |

### Output

| Phase-to-phase output voltage | 380/400/415/440 V, three-phase + neutral |
| Load power factor            | 0.9 |
| Output frequency             | 50/60 Hz, +/- 0.1% |
| Overload capacity utility operation | 125% for 10 minutes, 150% for 60 seconds |
| Output voltage regulation    | +/- 1% |
| Voltage distortion (THD)     | < 2% phase-to-phase and phase-to-neutral for nonlinear loads |
| Output voltage tolerance     | +/- 1% static, +/- 2% at 100% load step |

### Overall efficiency

- Efficiency at full load AC/AC at 100% load: Up to 94%
- ECO mode: Up to 97%

### Communication and management

- Control panel: Multifunction LCD, status, and control console

### Dimensions and weights

<table>
<thead>
<tr>
<th>Weight (UPS without battery), offshore/marine</th>
<th>456/488 kg</th>
<th>566/588 kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPS offshore (H x W x D)</td>
<td>2,130 x 735 x 950 mm</td>
<td></td>
</tr>
<tr>
<td>UPS marine 60/80 kVA (H x W x D)</td>
<td>2,240 x 735 x 1,095 mm</td>
<td></td>
</tr>
<tr>
<td>UPS marine 120 kVA (H x W x D)</td>
<td>2,220 x 735 x 1,095 mm</td>
<td></td>
</tr>
<tr>
<td>Battery cabinet narrow (H x W x D)</td>
<td>2,000 x 700 x 800 mm, weight: 110 kg</td>
<td></td>
</tr>
<tr>
<td>Battery cabinet wide (H x W x D)</td>
<td>2,000 x 1,000 x 800 mm, weight: 136 kg</td>
<td></td>
</tr>
<tr>
<td>Auxiliary cabinet narrow (H x W x D)</td>
<td>2,000 x 700 x 800 mm, weight: 148 kg</td>
<td></td>
</tr>
<tr>
<td>Auxiliary cabinet wide (H x W x D)</td>
<td>2,000 x 1,000 x 800 mm, weight: 199 kg</td>
<td></td>
</tr>
</tbody>
</table>

### Regulatory

- Safety: IEC 62040-1, EN 62040-1
- EMC/EMI/RFI: IEC 62040-2, EN 62040-2
- Approval: CE, TÜV
- Marine approval: Yes

### Environmental

- Operating temperature: 0 to 40 °C
- Storage temperature: -20 to 45 °C
- Relative humidity: 0% – 95% noncondensing
- Operating elevation: 0 – 1,000 m
- Storage elevation: 0 – 12,000 m
- Max. audible noise at 1 m from unit: 55.6 dBA 61.4 dBA 60.2 dBA

| They trust us: ABB Marine Solutions, STX Europe, DCNS, Hundai Heavy Industries, Kongsberg Maritime, Meyer Werft, Northrop Grumman, Raytheon, Samsung Heavy Industry, AIDA Cruises, Brittany Ferries, Carnival Cruise, CMA CGM, Cunard, French Navy, Hurtigruten, MSC, NCL, RCI
| At 70% load level: Only available in unitary products
| There is a risk of premature battery aging above 25 °C

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