Prostar Low Frequency Online UPS

6000 Series (1kVA-20kVA) 1:1  (6kVA-30kVA) 3:1
6000 Series

**System overview**

6000 series UPS has been designed as combined advanced IGBT technology with hi-frequency wider-modulated technology (PWM), which make customer could obtain hi-quality power output and optimized efficiency under each operation load. And the advanced modular design to reduce the average time to repair (MTTR), and the best maintenance. It also with the most advanced phase-balanced technology, and it features best stability, even if loss-phase, it could still operate at normal condition, so it’s suitable for any worse power supply. Double conversion, pure sine wave output line design could supply the low-distortion pure sine wave power, so it can provide the best power protection to the users’ equipment. And with the isolated output transformer, which ensure that the entire the isolation of the load and public electric.

6000 series UPS including single phase in & single phase out (SU1K-SU10K), three phases in & three phases out (SP6K-SP30K). Due to its prominent industrial and electronic design, the UPS not only could work safe in the harsh environment, but also could provide maximum protection office automation, network, security applications and industrial applications.

**Range of applications**

- Industrial Automatic Control
- Electronic & Telecom
- Medical Equipment
- Aeronautics & Astronautics
- Office Automation
- Army Technology
- Production Equipment
- Securities System
Main features

1. Intelligent Control Of Multiple CPU
   Groups of new microprocessor (CPU) co-ordination, which can precisely control the parameters of UPS and its full control, providing sufficient computing power, to ensure UPS always in top working condition.

2. Humanized Display Interface
   LCD dot matrix display, which visually indicated the UPS's operating parameters. LED displays the working status of UPS, and the LCD+LED combinations could make you get the UPS running Status Clearly and quickly.

3. High Intelligence Network Control
   Through the communication interface, with the monitoring software, which can directly monitor UPS on the computer, simplified power management; optional adapter remote monitor (SNMP card), with a variety of operating system and application software, as well as TCP/IP, SNMP, HTTP and other protocol support, which meets the users’ requirements to monitor UPS via network, this is more suitable for decentralized users to centralized manage, thereby achieving the real global Management.

4. Not Principal And Subordinate Type, But Adaptive Parallel Technology.
   It has strong ability in parallel and does not need to set the quantity of parallel, it can be arbitrary online parallel expansion or N+1 redundancy in parallel. Parallel UPS will share the same group batteries.

5. Intelligent Battery Management
   Adopts a three-stage charging method, which is good for recovery for the deep discharge of the battery. Independent current sharing and parallel charger, which can increase the capacity according to request. It can guarantee the charging request for the long backup UPS system. With the battery reverse connect protection, short circuit protection and over temperature protection, and other functions.
# Technical Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>SU1K</th>
<th>SU2K</th>
<th>SU3K</th>
<th>SU1KB</th>
<th>SU2KB</th>
<th>SU3KB</th>
<th>SU6K</th>
<th>SU6KB</th>
<th>SU10K</th>
<th>SU10KB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (VA/W)</td>
<td>1K/0.8K</td>
<td>2K/1.6K</td>
<td>3K/2.4K</td>
<td>1K/0.8K</td>
<td>2K/1.6K</td>
<td>3K/2.4K</td>
<td>6K/4.8K</td>
<td>6K/4.8K</td>
<td>10K/8K</td>
<td>10K/8K</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>Single phase with two lines + ground wire. 220V ± 25%</td>
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<td></td>
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<tr>
<td>Battery Voltage</td>
<td>192V</td>
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<tr>
<td>Built-in Battery</td>
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</tr>
<tr>
<td>Noise</td>
<td>≤ 55dB (Distance 1m)</td>
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</tr>
<tr>
<td>Size (W x D x H mm)</td>
<td>215 x 550 x 500</td>
<td>230 x 570 x 520</td>
<td>264 x 530 x 592</td>
<td>264 x 630 x 760</td>
<td>343 x 632 x 740</td>
<td>400 x 620 x 1110</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight(Kg)</td>
<td>34</td>
<td>52</td>
<td>35</td>
<td>52</td>
<td>54</td>
<td>35</td>
<td>53</td>
<td>98</td>
<td>91</td>
<td>120</td>
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</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>SU15K</th>
<th>SU20K</th>
<th>SP6K</th>
<th>SP10K</th>
<th>SP15K</th>
<th>SP20K</th>
<th>SP30K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (VA/W)</td>
<td>15K/12K</td>
<td>20K/16K</td>
<td>6K/4.8K</td>
<td>10K/8K</td>
<td>15K/12K</td>
<td>20K/16K</td>
<td>30K/24K</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>Single phase with two lines + ground wire. 220V ± 25%</td>
<td>Three phases with four lines + ground wire. 380V ± 25%</td>
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</tr>
<tr>
<td>Battery Voltage</td>
<td>192V</td>
<td>336V</td>
<td></td>
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</tr>
<tr>
<td>Noise</td>
<td>≤ 55dB (Distance 1m)</td>
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<td></td>
</tr>
<tr>
<td>Size (W x D x H mm)</td>
<td>343 x 632 x 740</td>
<td>264 x 530 x 592</td>
<td>343 x 624 x 1020</td>
<td>400 x 620 x 1110</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight(Kg)</td>
<td>110</td>
<td>122</td>
<td>53</td>
<td>139</td>
<td>158</td>
<td>178</td>
<td>263</td>
</tr>
</tbody>
</table>

- **Input Frequency**: 50Hz/60Hz ± 10%
- **Power factor**: ≥ 0.95
- **Voltage**: 220V ± 0.5%
- **Frequency Stabileness**: 50Hz/60Hz ± 0.05% (DC Supply)
- **Transmit response**: Output at 0~50% = 100% ± 5%, response 10ms
- **Harmonic distortion**: Linear Load = 3%, Non-linear Load = 5%
- **Overload capacity**: 110% ≥ 300 Min, 125% ≥ 10 Min, 150% ≥ 1 Min
- **Wave Form**: Sine Wave
- **Efficiency**: UPS Efficiency ≥ 91%
- **Battery Type**: Lead-acid sealed, maintenance-free
- **Charging Time**: After it is fully charged, it can be filled to 90% of the total capacity after it is charged for 8 hours
- **Battery Discharge**: Alarm every 4 seconds when power supply by battery and without main power.
- **Battery low-voltage protection**, alarm every one second.
- **Battery under-voltage protection**, continuous alarm
- **Fault Abnormal**: Continuous alarm
- **LCD Display**: With display input voltage, output voltage, frequency, DC voltage, output power efficiency(%), temperature
- **LCD Lights**: Main power, inverter, bypass, battery, failure, overload
- **Temperature**: ≤ -10°C to ≤ 50°C
- **Relative Humidity**: 0%~93% (No condensation)
- **Operation Condition**: Lower than 3000 meters above sea level (altitude)

Remarks: Products specifications are subject to change without notice.