Conext XW+
hybrid inverter/charger

One solution for global power needs

Product at a glance

Conext™ XW+ is an adaptable single-phase and three-phase inverter/charger system with grid-tie functionality and dual AC power inputs. Compatible solar charge controllers, monitoring, and automated generator control modules enable further compatibility. From a single Conext XW+ unit to clusters up to 76.5 kW, the Conext XW+ is a scalable system that allows for the integration of solar capacity as required. Adaptable and scalable, the Schneider Electric Conext XW+ system is a complete solution for grid-interactive and off-grid, residential and commercial, solar and backup power applications.

Conext XW+

Higher return on investment

• Excellent load starting with high 30 minute and 5 second power
• Performs in hot environments up to 70°C
• Intelligent functionality enables solar prioritization, load shifting, peak shaving, and assists small generators with heavy loads
• Backup power with grid-tie functionality converts external DC power to AC power to export to the utility grid

Designed for reliability

• Extensive quality and reliability testing
• Highly accelerated life testing
• Globally proven and recognized field performance

Flexible

• Single or three-phase off-grid systems from 7.0 kW to 76.5 kW (30 minutes rating at 25 °C)
• Supports DC-coupled and AC-coupled off-grid and grid-tie architectures
• Supports charging of lithium ion battery packs

Easy to service

• Field serviceable with replacement boards and spare parts
• Monitor, troubleshoot, or upgrade firmware with Conext ComBox™

Easy to install

• System configures quickly into compact, wall-mounted system
• Integrates both grid and generator power with dual AC inputs
• Balance-of-system components integrates battery bank, solar charge controllers, and generators
• Commission the entire system with PC software tool and Conext ComBox

Product application

Residential grid-tie solar with backup power

Self-consumption

Off-grid solar

Backup power

Community electrification
### Specifications

#### Conext XW+ series (120/240 V)

<table>
<thead>
<tr>
<th>Device short name</th>
<th>XW+ 5548 NA</th>
<th>XW+ 6848 NA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inverter AC output (standalone)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output power (continuous) at 25°C</td>
<td>5500 W</td>
<td>6800 W</td>
</tr>
<tr>
<td>Overload 30 min/60 sec at 25°C</td>
<td>7000 W/9500 W</td>
<td>8500 W/12000 W</td>
</tr>
<tr>
<td>Output power (continuous) at 40°C</td>
<td>4500 W</td>
<td>6000 W</td>
</tr>
<tr>
<td>Maximum output current 60 seconds (rms)</td>
<td>82 A (120 V); 41 A (240 V)</td>
<td>102 A (120 V); 52 A (240 V)</td>
</tr>
<tr>
<td>Output frequency (selectable)</td>
<td>50/60 Hz</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td>Output voltage</td>
<td>L-N: 120 V +/- 3%; L-L: 240 V +/- 3%</td>
<td>L-N: 120 V +/- 3%; L-L: 240 V +/- 3%</td>
</tr>
<tr>
<td>Total harmonic distortion at rated power</td>
<td>&lt; 5 %</td>
<td>&lt; 5 %</td>
</tr>
<tr>
<td>Idle consumption search mode</td>
<td>8 W</td>
<td>8 W</td>
</tr>
<tr>
<td>Input DC voltage range</td>
<td>42 to 60 V (48 V nominal)</td>
<td>42 to 60 V (48 V nominal)</td>
</tr>
<tr>
<td>Maximum input DC current</td>
<td>15 A</td>
<td>180 A</td>
</tr>
</tbody>
</table>

#### Charger DC output

| Maximum output charge current | 110 A | 140 A |
| Output charge voltage range | 40 – 64 V (48 V nominal) | 40 – 64 V (48 V nominal) |
| Charge control | Three stage, two stage, boost, custom | Three stage, two stage, boost, custom |

#### Power factor corrected charging

- Battery temperature sensor included

#### Compatible battery types

- Flooded (default), Gel, AGM, Lithium ion, custom*

#### Battery bank range (scaled to PV array size)

- L-N: 120 V +/- 3%; L-L: 240 V +/- 3% |

#### AC input

| AC 1 (grid) input current (selectable limit) | 3 – 60 A (60 A default) | 3 – 60 A (60 A default) |
| AC 2 (generator) input current (selectable limit) | 3 – 60 A (60 A default) | 3 – 60 A (60 A default) |
| Automatic transfer relay rating/typical transfer time | 60 A/8 ms | 60 A/8 ms |
| AC input voltage limits (bypass/charge mode) | L-N: 78 – 140 V (120 V nominal); L-L: 160 – 270 V (240 V nominal) | L-N: 78 – 140 V (120 V nominal); L-L: 160 – 270 V (240 V nominal) |
| AC input frequency range (bypass/charge mode) | 55 – 65 Hz (default); 52 – 68 Hz (allowable) | 55 – 65 Hz (default); 52 – 68 Hz (allowable) |

#### AC-grid tie output

| Grid sell current range on AC1 (selectable limit) | 0 to 40 A (120 V); 0 to 20 A (240 V) | 0 to 48 A (120 V); 0 to 27 A (240 V) |
| Grid sell voltage range on AC1 (auto adjusts entering sell mode) | L-N: 105.5 to 132 +/- 1.5 V; L-L: 211 to 264 +/- 3.0 V | L-N: 105.5 to 132 +/- 1.5 V; L-L: 211 to 264 +/- 3.0 V |
| Grid sell frequency range on AC1 (auto adjust entering sell mode) | 59.4 to 60.4 +/- 0.05 Hz | 59.4 to 60.4 +/- 0.05 Hz |

#### Efficiency

| Peak | 95.7% |
| CEC weighted efficiency | 93.0% |
| General specifications | 92.5% |

#### Operating air temperature range

-25°C to 70°C (-13°F to 158°F) (power derated above 25°C (77°F))

#### Warranty (depending on the country of installation)

- 2 or 5 years

#### System monitoring and network communications

- Available

#### Intelligent features

- Grid sell, peak load shave, generator support, prioritized consumption of battery or external DC energy

#### Auxiliary port

- 0 to 12 V; maximum 250 mA DC output, selectable triggers

#### Off-grid AC coupling

- Frequency control

#### Regulatory approval

- Available

#### Safety

- UL1741, CSA 107.1

#### EMC directive

- FCC and Industry Canada Class B

#### Interconnect

- IEEE 1547 and CSA 107.1

#### Compatible products

- Conext XW+ Power Distribution Panel 865-1014-01
- Conext System Control Panel 865-1050
- Conext Automatic Generator Start 865-1060
- Conext MPPT 60 150 865-1030-1
- Conext MPPT 80 600 865-1032
- Conext ComBox 865-1058
- Conext Battery Monitor 865-1080-01
- Conext Battery Fuse Combiner Box 865-1031-01
- Conext Configuration Tool 865-1155-01

Specifications are subject to change without notice.