

XTREME POWER CONVERSION X90-2S

2 Slot Modular Online UPS // 480VAC 3W Three-Phase 50kW-140kW

For more information, visit www.xpcc.com/x90-2s



Scalable, Modular, Compact 480V UPS

The X90-2S is a scalable modular online double conversion UPS that protects critical data and equipment from power problems while supplying clean and reliable network grade power.

The fully integrated X90-2S UPS includes maintenance bypass and batteries (up to 100kW) in single cabinet providing the most compact footprint and simplifying installation.

For 208/120VAC 3 phase UPS, reference the M90-80 www.xpcc.com/m90-80 & M90-140 www.xpcc.com/m90-140

PRODUCT SNAPSHOT

- › Capacities: 50kW, 70kW, 100kW, 140kW
- › 65kAIC rating
- › Hot swappable power and battery modules
- › UL-1778 , cUL, FCC A, RoHS, TAA, Energy Star
- › 2 year warranty (USA and Canada)

FEATURES

Highest availability— system can be configured with redundant power and battery modules

Reduce energy cost— online efficiency up to 96.5% and ECO mode up to 99%

Power module ratings— 50kW or 70kW modules available

Internal Batteries— internal batteries provide up to 6 minutes at 100kW load

Full front access— no rear clearance required for maintenance

Maintenance bypass— integral front bypass enables maintenance and repair

Large Touchscreen LCD display— 10" display provides graphic display including status and alarms

Dual or single utility input— provides maximum installation flexibility

Cable Access — top cable access is standard. Optional 6" side car kit is available for bottom entry

MODEL SELECTION GUIDE

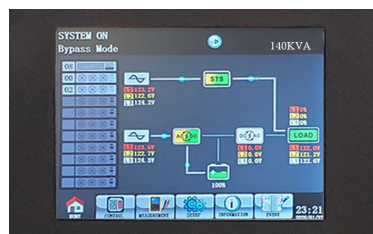
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| MODEL NUMBER | | X90-2S50k | X90-2S70k | X90-2S100k | X90-2S140k |
|-----------------------------------|------------------------------------|---|------------|--------------|--------------|
| CAPACITY | Power rating | 50kVA/50kW | 70kVA/70kW | 100kVA/100kW | 140kVA/140kW |
| CABINET CAPACITY | X90-2S UPS: power modules | Up to 140kW (2 x 70kW) or up to 100kVA (2 x 50kW) | | | |
| | X90-2S UPS: battery modules | 4, 8, 12, 16 or 20 battery modules | | | |
| | X90-BC: battery modules | Up to 36 additional battery modules | | | |
| INPUT | Voltage/frequency nominal | 480VAC (3W), 50/60Hz auto-sensing | | | |
| | Voltage/frequency range | 480VAC or +20/-20% VAC three-phase, 40-70Hz | | | |
| OUTPUT | Voltage/frequency range | 480VAC (3W), 50/60Hz auto-sensing | | | |
| | Efficiency | Up to 96.5% online mode or 99% ECO mode | | | |
| | Overload capacity | 105%-110% for 60min; 110%-125% for 10min; 126%-150% for 1min; >150% for 200ms | | | |
| BATTERY SYSTEM | Nominal voltage | +/-240VDC | | | |
| | Charge Current (programable) | 18A | 18A | 36A | 36A |
| DIMENSIONS & WEIGHTS | UPS & battery cabinet (W x D x H) | 23.6 x 42 x 79 in / 864 lbs (UPS) / 23.6 x 42 x 79 in 878 lbs (BC) | | | |
| | Power & battery module (W x D x H) | 17.2 x 29.5 x 5.1 in / 106 lbs (PM) 17.2 x 29.5 x 5.25 in / 70 lbs (BM) | | | |
| ENVIRONMENT | Temperature | 0-40°C (32-104°F) | | | |
| | Altitude | 5,200 ft above sea level | | | |
| | Audible noise (typical) | < 69dBA at 1m | | | |
| APPROVALS | | UL-1778, cUL, FCC A, RoHS, TAA, Energy Star | | | |
| WARRANTY | | 2 years (USA and Canada) | | | |
| OPTIONAL COMMUNICATIONS INTERFACE | | RS-232, EPO, Relays, Intelligent slot for web cards (Web/SNMP, Modbus) | | | |
| INCLUDED IN BOX | | User manual, RS-232 cable, unloading ramp, ViewPower Software | | | |
| AVAILABLE OPTIONS | | External maintenance bypass, battery temperature sensor, side car kit for bottom cable access (increases width by 6") | | | |

BATTERY RUNTIMES

| | X90-2S UPS | | | | X90-2S UPS + X90-BC | | | | | | | | |
|-----------------|------------|----|----|----|---------------------|----|----|----|----|----|----|----|----|
| Battery Modules | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 |
| 30kW | 9 | 15 | 21 | 27 | 34 | 41 | 48 | 56 | 63 | 71 | 79 | 87 | 95 |
| 50kW | - | 7 | 11 | 15 | 18 | 22 | 26 | 30 | 34 | 38 | 43 | 47 | 52 |
| 70kW | - | - | 7 | 10 | 12 | 15 | 17 | 20 | 23 | 26 | 28 | 31 | 35 |
| 80kW | - | - | 6 | 8 | 10 | 13 | 15 | 17 | 19 | 22 | 24 | 27 | 29 |
| 100kW | - | - | - | 6 | 7 | 9 | 11 | 13 | 15 | 17 | 18 | 20 | 22 |
| 140kW | - | - | - | - | - | 6 | 7 | 8 | 10 | 11 | 12 | 14 | 15 |

Runtimes are shown in minutes and will vary based on battery age and site conditions.



Touch LCD Display

65kAIC Breakers
Input, output & maintenance bypass

Battery Module
includes 10 pieces of 12V 580W batteries



X90-2S 100kW UPS
(door removed)

Battery Switch

Power Module
50kW or 70kW each



X90-BC Battery
Cabinet

Battery Breaker

Battery Enclosure
Includes slots for up to 36 battery modules

X-TREME
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