

ON Series® Power Conditioned UPS: For some, conventional UPSs are “good enough.” But many find ordinary protection measures inadequate. Others face performance expectations with no tolerance for downtime. ON Series Power Conditioned UPSs are engineered to satisfy these demanding applications.

Ultimate assurance of system reliability

All UPS makers acknowledge the broad range of power disturbances that compromise system reliability. And all address them to some degree.

But here's the difference — ONEAC's proprietary low-impedance, transformer based, power conditioning technology eliminates power problems entirely, providing greater assurance of system reliability and a level of protection that even the highest quality surge suppressor and filter technology cannot match.

Scalable Runtime

Simply add batteries to extend runtime. We start with premium quality batteries. Thermally isolate them for maximum life. And employ unique charging circuitry attuned to the specific battery characteristics of each model. This speeds recovery and minimize stress on batteries. Automatic monitoring of battery condition ensures readiness, gives plenty of warning when replacement is recommended. And our convenient battery pack allows replacement in under a minute without training, without downtime, and without risk.

Versatile design conserves valuable workspace

The ON Series fits comfortably alongside your electronic equipment in either a vertical, horizontal or rackmount orientation. The compact design of the ON Series UPS conserves valuable workspace.

Proven durability, backed by a 5-year warranty

ONEAC UPSs robust design is impervious to the harshest electrical environments. Designed and manufactured under ISO9001 quality procedures, ON Series UPSs are exceptionally reliable. With an average mean time between failures more than twice as long as leading competitors. No surprise, then, that we back our UPSs with greater confidence — 5 years on all power and control systems, 2 years on the battery sub-system.



- **Isolation transformer-based, line-interactive topology**
- **Intelligent communications:** for advanced diagnostics & remote management (RS232 standard, optional USB and SNMP available).
- **Includes MopUPS® software and cable:** for network shutdown and remote management.
- **Small footprint:** compact, slim-line design conserves valuable space.
- **Comprehensive, user-friendly front-panel display:** simply rotate the display for easy viewing in all mounting orientations.
- **Flexible mounting options:** vertical, horizontal or 19" two-post center mount or four-post rackmountable (with 23" rackmount option available).
- **Hot-swap, user-replaceable battery:** minimizes cost and downtime
- **Scalable runtime:** simply add batteries to extend runtime
- **Full-time, low-impedance isolating transformer:** eliminates all power contaminants
- **Sinusoidal waveform:** supports even the most sensitive loads
- **ONBoost®:** compensates for momentary voltage drops, conserves batteries
- **Automatic self-test:** ensures battery and system readiness
- **Agency approvals:** UL, cUL, CSA
- **5-year warranty:** the best assurance of product quality and performance in the industry

ON SERIES Power Conditioned UPS: Specifications

Power Conditioning

ONEAC's unique power conditioning architecture provides superior protection against the full range of power line disturbances. Components include:

Full output isolation: ONEAC's proprietary transformer design integrates power conditioning magnetics and voltage conversion magnetics in a single compact unit. Provides superior protection against lightning and other high energy surges.

Virtual Kelvin Ground[®]: Eliminates the full spectrum of conducted power line noise (from 50 kHz to 10 MHz) in all modes, reduces the effect of electrostatic discharge (ESD) and provides an exceptionally clean signal reference ground for electronic systems.

Communications

Basic mode provides standard protocols recognized by UPS monitoring software native to Windows NT/2000/XP, NetWare and Novell 5.x, 6.x operating systems.

Advanced mode uses ONEAC's content-rich protocol to communicate with ONEAC's MopUPS[®] family of UPS monitoring software for NetWare, Windows, a full catalog of UNIX operating systems and SNMP.

Global Approvals

Models for North America are FCC Class A certified and listed under UL 1778 and CSA22.2 safety standards.

Performance Characteristics

Nominal input voltage: 120 VAC, 60 Hz

Surge voltage withstand capability: ANSI/IEEE C62.41 Category A&B, 6 kV/200 & 500 Amp, 100 kHz ringwave

Surge voltage let-through (max): less than 10 V Normal mode (L-N), less than 0.5 V Common mode (N-G) when subjected to 6kV ANSI/IEEE C62.41 Cat. A

Normal & common mode clamping response time: Instantaneous

Transfer time (typical/max): < 3.0 / 3.5 milliseconds

On-battery output voltage: sine wave

ONBoost: boosts output voltage 11% above input voltage if between -21% & -15% of nominal

Load power factor range (crest factor): UPS .65 to 1.0 (3) — will support loads rated 0.5 to 1.0 (<5)

Batteries: sealed, maintenance-free lead acid with a 3-6 year typical lifetime

Recharge time to 60% available capacity: 4 hours per battery cabinet

MODEL #	UPS ON700	UPS ON1000	External Battery ONXBCU
Part number	ON700XAU-SN	ON1000XAU-SN	ONXBCU-417
Maximum capacity (volt-amps/watts)	700/470	1000/670	N/A
Batteries	(4) 12 V, 5 AH	(4) 12 V, 5 AH	(4) 12 V, 17 AH
Typical runtime by system load	<i>Due to application specific conditions, your actual run time may be different.</i>		
@ half load	32	21	*
@ full load	14	9	*
Maximum dimensions (H) - in. (cm)	3.5 (9)	3.5 (9)	3.5 (9)
Maximum dimensions (W) - in. (cm)	17.25 (44)	17.25 (44)	17.25 (44)
Maximum dimensions (D) - in. (cm)	19.5 (50)	19.5 (50)	19.5 (50)
Net weight— lbs. (kg)	68 (31)	68 (31)	82 (37)
Shipping weight— lbs. (kg)	76.5 (35)	76.5 (35)	90.5 (41)
Input connector	6' detachable cord w/5-15P	6' detachable cord w/5-15P	n/a
Output connectors	(6) 5-15R and (2) 5-20R	(6) 5-15R and (2) 5-20R	n/a

* Additional runtime will depend on number of battery packs and load.

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ONEAC is a UL/BSI registered corporation — Certification No. A2900



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