

ON Series® e UPS (200 - 600 VA): 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 power conditioning technology eliminates power problems entirely. Providing a level of protection that even the highest quality surge suppressor and filter technology cannot match.

Exceptionally dependable battery backup

We start with premium quality batteries. Thermally isolate them for maximum life. We employ a unique charging circuitry attuned to the specific battery characteristics of each model; to speed recovery and minimize stress on batteries. Automatic monitoring of battery condition ensures readiness. And our user replaceable battery pack allows rapid replacement without downtime, and without risk.

Proven durability, backed by a 5-year warranty

The robust design of an ONEAC UPS is impervious to the harshest electrical environments. Designed and manufactured under ISO 9001 quality procedures, ON Series e 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.



ONEAC's low-impedance, isolation transformer provides a level of protection superior to surge suppressor and filter based systems — providing greater assurance of system reliability.



- **Full-time, on-line isolating transformer:** eliminates all power contaminants
- **ONBoost®:** compensates for line sags and brown-outs, conserves batteries
- **On-site, on-line replaceable battery:** minimizes cost and downtime
- **Automatic self test:** ensures battery and system readiness
- **Safety approvals:** UL, cUL, and CE
- **Manufactured under ISO 9001:** assures consistent quality and performance.
- **5-year warranty:** (2-year on batteries): the best assurance of product quality and performance in the industry
- **Free 24-hour technical support**

ON Series e 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 incorporates power conditioning magnetics and voltage conversion magnetics in a single compact unit. Providing 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 (optional)

Basic mode communications provides standard signals recognized by ONEAC MopUPS® or UPS monitoring software supplied with Windows NT, NetWare and Banyan operating systems. Basic mode provides power fail and low battery signals for unattended system shutdown. The ability to receive inverter-off commands saves remaining battery charge.

Global approvals

120 VAC models are FCC Class A certified and listed under UL 1778 and CSA22.2 safety standards. 230 VAC models bear the CE mark and are tested under the following standards: EN50091, EN60950, EN50081-1, EN55022 (CISPR 22), EN50082-1, EC801-2, IEC801-3 and IEC801-4.

Performance characteristics

Nominal input voltage: 120 VAC, 60 Hz, 120 VAC, 50/60 Hz or 230 VAC, 50/60 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 6 kV ANSI/IEEE C62.41 Cat. A

Normal & common mode clamping response time: Instantaneous

Transfer time (typical/max): 4/6 milliseconds

On battery output voltage: Pseudo sine wave

ONBoost: Boosts output voltage 10% 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, user replaceable

Recharge time to 60% available capacity: 6-10 hours

All units provide thermal isolation for battery pack.

MODELS	ONe200D*	ONe300D*	ONe400D	ONe600X	External Battery Pack**
Part number♦ - single battery double battery	ONE200A-SB ONE200DA-SB	ONE300A-SB ONE300DA-SB	NA ONE400DA-SB	NA ONE600XA-SB	ONEXBC-217
Maximum capacity (volt-amps, watts)	200, 135	300, 200	400, 270	600, 400	NA
Batteries - single battery models double battery models	one at 12 V, 7 AH two at 6 V, 10 AH	one at 12 V, 7 AH two at 12 V, 7 AH	NA two at 12 V, 7 AH	NA two at 12 V, 7 AH	two at 12 V, 17 AH
Typical runtime by system load: single battery models - half load/full load double battery models - half load/full load	<i>Due to application specific conditions, your actual run time may be different.</i>				† †
	18 min/8 min 37 min/16 min	16 min/5 min 40 min/15 min	NA 35 min/15 min	NA 27 min/5 min	
Basic mode communications	optional	optional	optional	standard	NA
Maximum dimensions - H - in. (cm)	7.4 (19)	7.4 (19)	7.75 (20)	7.75 (20)	3.75 (10)
Maximum dimensions - W - in. (cm)	6.0 (15.2)	6.0 (15.2)	7.0 (18)	7.0 (18)	7.0 (18)
Maximum dimensions - D - in. (cm)	15.0 (38.1)	15.0 (38.1)	16 (41)	16 (41)	17 (43)
Net weight - lbs. (kg) single battery models double battery models	26 (12) 29 (13)	31 (14) 37 (17)	NA 42 (19)	NA 48 (22)	NA 35 (16)
Shipping weight - lbs. (kg) single battery models double battery models	29 (18) 32 (15)	34 (15) 40 (18)	NA 45 (20)	NA 51 (23)	NA 38 (17)
Input connector	60Hz units include 6 ft., attached input cord, 5-15P. 50/60Hz units include IEC 320 M/F detachable cord(s).				
Output sockets: NEMA 5-15R for 60Hz (IEC 320 female for 50/60 Hz)	4 (4)	4 (4)	4 (4)	4 (4)	NA

* Wallmount models available.

** External Battery Pack available for the ONe600X UPS only.

♦ Part numbers shown feature a basic communications interface. If UPS communications are not required, replace SB with SV in part number (i.e., ONE200DA-SV).

† Runtimes are based upon fully charged, new batteries. Runtimes are affected by battery age, ambient temperature, site-specific UPS usage patterns, and actual operating load characteristics. Actual runtimes may vary.

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ONEAC is a UL/BSI
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Certification No. A2900



(800) 327 8801 OPT. 2 in USA AND CANADA

27944 N. Bradley Road, Libertyville, IL 60048 Phone 847 816-6000 FAX 847 680-5124

+44 (0) 2380 610311 in UK AND EUROPE

George Curl Way, Southampton, Hampshire SO18 2RY UK FAX +44 (0) 2380 610852