

## FEATURES

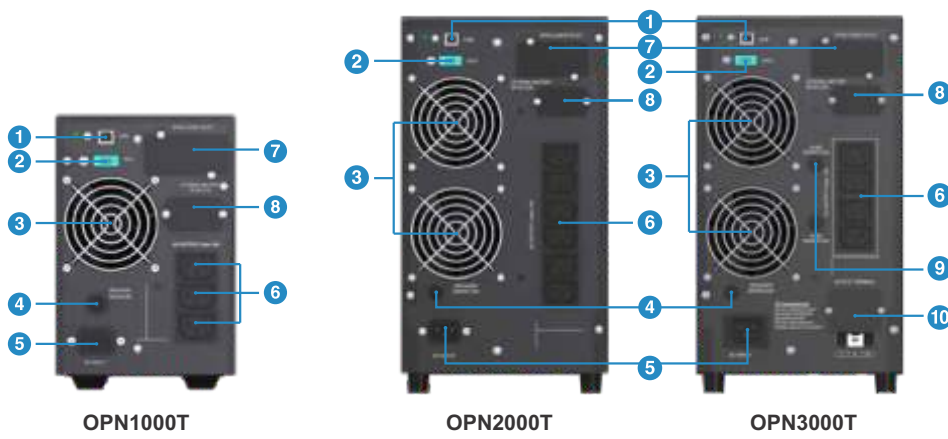
- DSP Control
- 0.8 Output Power Factor
- Wide Input Range
- High Efficiency Mode (ECO)
- Frequency Converter Mode
- Input THDi <5%
- Output Voltage Regulation <2%
- Output THDv <3%
- Auto Self-Testing System
- Extendable Run Time\*
- (\*EB versions only)
- Fan Speed Control
- Power Management Software
- Multiple Communication Ports
- Optional SNMP & Relay Cards
- Compact Design

# UPS SYSTEM

## OPN Series - 1-3KVA Tower

High Performance True  
Double Conversion Online UPS





**REAR PANEL 1-3KVA:**

1. USB Port
2. EPO
3. Cooling Fan
4. Input Breaker
5. Input Socket \*
6. Output Socket
7. Intelligent Slot
8. Battery Connector
9. Fuse
10. Output Terminal

\* OPN1000T, OPN1000TEB & OPN 2000T: 10A socket  
 OPN2000TEB & OPN3000T: 16A socket  
 OPN3000TEB: Terminal Block

# OPN Series - 1-3KVA Tower

	MODEL	OPN1000T	OPN1000TEB	OPN2000T	OPN2000TEB	OPN3000T	OPN3000TEB
<b>CAPACITY</b>	VA/W	1000VA / 800W		2000VA / 1600W		3000VA / 2400W	
<b>INPUT</b>	Voltage Range	110~300vac Depending on Load Level					
	Frequency Range	45-55Hz / 54-66Hz					
	Phase	Single Phase with Ground					
	THDi	<5% with Full Load					
	Power Factor	>0.99					
<b>OUTPUT</b>	Voltage	200/208/220/230/240VAC					
	Voltage Regulation	±2%					
	Frequency (Synch. Range)	45-55Hz / 54-66Hz					
	Frequency (BAT Mode)	50/60Hz± 0.2Hz					
	Current Crest Ratio	3:1					
	Harmonic Distortion	<3% @ Linear Load / <5% @ Non-Linear Load					
	Output Waveform	Pure Sine Wave					
	Overload Capacity: Line Mode	1 min @ 105%-110% Load / 30s @ 110%-120% Load					
Overload Capacity: BAT Mode	10s @ 125%-150% Load / < 1s @ >150% Load						
<b>EFFICIENCY</b>	Line Mode	>88%					
	BAT Mode	>85%					
	ECO Mode	>93%			>94%		
<b>BATTERY</b>	Number of Batteries	3	Depending on the capacity of external batteries	8	Depending on the capacity of external batteries	8	Depending on the capacity of external batteries
	Battery Type	12V / 7Ah		12V / 7Ah		12V / 7Ah	
	Backup Time	> 5 minutes		> 9 minutes		> 5 minutes	
	Recharge Time	5 hours to 90%		5 hours to 90%		5 hours to 90%	
	Charging Current	1A		8A		1A	
<b>TRANSFER TIME</b>	BAT to LINE	0ms					
	INV to BYPASS	<4ms					
	INV to ECO	<4ms					
	ECO to INV	<10ms					
<b>INDICATOR</b>	LCD	Load / Battery / Input / Output / Operating Mode Information					
<b>AUDIBLE ALARM</b>	BAT Mode	Beeps every 4 seconds					
	Battery Low	Beeps every second					
	Fault	Beeps Continuously					
	Overload Capacity	Beeps twice every second					
<b>DIMENSION</b>	Tower Case (WxHxD) mm	145x220x400		192x347x460		192x347x460	
	Weight (kg)	13.5 kg	7.38 kg	29.5 kg	12.74 kg	29.5 kg	12.77 kg
<b>ENVIRONMENT</b>	Operation Environment	0-45°C					
	Relative Humidity	20-90% (Non-condensing)					
	Noise Level	<50dB @ Front 1 Meter					
<b>INTERFACE</b>	USB	Software Supports Windows Family, Linux, Sun Solaris, MAC					
	External Slot	SNMP / AS400 / Relay Card					
	EPO	Emergency Power Off					

\* Product specifications are subject to change without prior notice