

MODEL		OPN1000T	OPN1000TEB	OPN2000T	OPN2000TEB	OPN3000T	OPN3000TEB			
Phase		Single phase with ground								
Capacity (VA/Watts)		1000VA / 900W		2000VA / 1800W		3000VA / 2700W				
INPUT										
Nominal voltage		200/208/220/230/240Vac								
Operating Voltage Range	Low-line transfer	160Vac ± 5% @ 100%~80% load								
		140Vac ± 5% @ 80%~70% load								
		120Vac ± 5% @ 70%~60% load								
		110Vac ± 5% @ 60%~0% load (Ambient Temp. <35°C)								
	Low-line re-transfer	175Vac ± 5% @ 100%~80% load								
		155Vac ± 5% @ 80%~70% load								
		135Vac ± 5% @ 70%~60% load								
		125Vac ± 5% @ 60%~0% load (Ambient Temp. <35°C)								
High-line transfer	300Vac ± 5%									
High-line re-transfer	290Vac ± 5%									
Operating frequency range		40~70Hz								
Power factor		0.99								
Generator input		Support								
OUTPUT										
Output voltage		200/208/220/230/240Vac								
Power factor		0.9								
Voltage regulation		± 1%								
Frequency	Line Mode (synchronised range)	47~53Hz or 57~63Hz								
	Battery Mode	(50/60 ± 0.1) Hz								
Crest factor		3:1								
Harmonic distortion (THDv)		≤ 3% THD with linear load ≤ 6% THD with non-linear load								
Waveform		Pure Sinewave								
Transfer time	AC <-> Batt.Mode	Zero								
	Inverter <-> bypass	4ms (Typical)								
Efficiency	Line Mode	83%	84%	85%	86%	87%	88%			
	Batt Mode	85%	86%	87%	88%	89%	90%			
BATTERY										
Battery type		12V9Ah	Depends on capacity of external batteries		12V9Ah	Depends on capacity of external batteries				
Quantity		2	2	3	4	4	6	6	6	8
Backup time		Long run unit depends on the capacity of external batteries								
Typical recharge time (standard model)		4 hours to recover to 90% capacity (Typical)								
Charging voltage		27.4Vdc ± 1%	27.4Vdc ± 1%	41.0Vdc ± 1%	54.7Vdc ± 1%	54.7Vdc ± 1%	82.1Vdc ± 1%	82.1Vdc ± 1%	82.1Vdc ± 1%	109.4Vdc ± 1%
Charge current		1A	12A max ***		1A	12A max ***		1A	12A max ***	
SYSTEM FEATURES										
Line Mode	Ambient Temp. <35°C	105%~110%: UPS shuts down after 10 minutes in battery mode or transfer to bypass when the utility is normal 110%~130%: UPS shuts down after 1 minute in battery mode or transfer to bypass when the utility is normal >130%: UPS shuts down after 3 seconds in battery mode or transfer to bypass when the utility is normal								
Battery Mode	Ambient Temp. 35°C to 40°C	105%~110%: UPS shuts down after 1 minute in battery mode >110%: UPS shuts down after 3 seconds in battery mode								
Short circuit		Instant UPS Shutdown								
Overheat		Line Mode : Switch to Bypass; Backup Mode; Shut down UPS immediately								
Low battery voltage		Alarm and Switch Off								
EPO (optional)		Shutdown down UPS immediately								
Audible and Visual alarms		Line Failure, Battery Low, Overload, System Fault								
Communication interface		USB (or Rs232), SNMP card (optional), Relay card (optional)								
ENVIRONMENTAL										
Operating temperature		0~40°C								
Storage temperature		-25°C ~ 55°C								
Humidity range		20~90% RH @ 0~40° (non-condensing)								
Altitude		<1500m								
Noise level		Less than 50dBA @ 1 Meter								
PHYSICAL										
Dimension W x H x D (mm)		144x209x293	144x209x293	144x209x293	144x209x399	144x209x399	144x209x399	191x337x460	144x209x399	144x209x399
Net weight (kg)		9.8	4	4.1	17	6.7	6.8	27.6	7.3	7.4
STANDARDS										
Safety		IEC/EN62040-1, IEC/EN60950-1								
EMC		IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4 IEC6100-4-5, IEC61000-4-6, IEC61000-4-8								

* Derate to 80% of capacity when the output voltage is adjusted to 200/208Vac

** Product specifications are subject to change without prior notice.

*** LCD Setting



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1kVA to 3kVA

OPN SERIES UPS



- True double-conversion
- Wide input voltage range (110~300 Vac)
- Input power factor correction 0.99
- Output Power Factor 0.9
- Maximum 12A charger for long-run models
- Charger current can be setting by LCD
- 50Hz/60Hz frequency converter mode
- Emergency power off function (EPO)
- ECO mode operation for energy saving
- Generator compatible
- SNMP / USB / RS232 multiple communications
- Smart battery charger design for optimised performance
- Selectable output voltage: 200,208,220,230,240Vac

RELIABLE, TRUE DOUBLE-CONVERSION UNINTERRUPTIBLE POWER SUPPLY

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