



## 20 kVA HETEOS 300 SERIES

UNINTERRUPTIBLE POWER SUPPLIES

3 phase in / 3 phase out

### GENERAL SPECIFICATIONS

- True online double-conversion
- DSP technology guarantees high performance
- Output power factor 1.0
- Active power factor correction in all phases
- 50Hz/60Hz frequency converter mode
- ECO mode operation for energy saving
- Customized dual-mains inputs
- Emergency power off function (EPO)
- Generator compatible
- SNMP+USB+RS-232 multiple communications
- 3-stage extendable charging design for optimized battery performance
- Adjustable battery numbers, 12A battery charger
- Maintenance bypass available
- Optional parallel redundancy
- Optional isolation transformer offers full isolation and complete common mode noise rejection
- RPA (Redundant Parallel Architecture): parallel  $\geq 4$  units for redundancy or capacity





## Heteos 320

# TECHNICAL SPECIFICATIONS

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<b>MODEL</b>		<b>Heteos 320</b>
Phase		3 phase in / 3 phase out
Capacity		20kVA / 20kW
<b>INPUT</b>		
Nominal voltage		3x380/400/415 VAC (3Ph+N)
Input voltage range		190-520VAC (3-Phase) @ 50% load 305-478 VAC (3-Phase) @ 100% load
Frequency range		40~70 Hz
Power factor		≥ 0.99 @ 100% load
<b>OUTPUT</b>		
Output power rating		20kVA
Output voltage		3 x 380/400/415 VAC (3Ph+N)
AC Voltage regulation		Static load: ± 1%. Dynamic load 0-100%-0: ± 3%. 100% unbalance load: ± 3%
Frequency range		46~54Hz or 56~64Hz, front selectable
Short circuit characteristic		Electronic short-circuit protection, current limit to 2.2 times In for ≥ 100ms
Harmonic distortion		≤ 1 % THD (Linear Load), ≤ 4 % THD (Non-linear Load)
Transfer Time	AC Mode to batt. mode	Zero
	Inverter to bypass	Zero
Waveform		Pure Sinewave
<b>EFFICIENCY</b>		
Online mode		≥ 96% @25-100% load
Eco Mode		≥ 99%
Battery mode		≥ 94.5%
<b>BATTERY</b>		
Battery type		Store energy, Valve Regulated Lead Acid (VRLA) type: 12V / 9AH
Numbers		(16+16) pcs
Backup time at 100% load		≥ 12 minutes @pf=0.8
Charging current (max.)		1A-12A (adjustable)
Charging voltage		± 218 VDC
<b>INDICATORS</b>		
LCD Panel		To monitor: UPS Status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions
<b>ALARM</b>		
Battery mode		Sounding every 4 seconds
Low battery		Sounding every second
Overload		Sounding twice every second
Fault		Continuously sounding
<b>PHYSICAL</b>		
Dimension HxWxD (mm)		630x250x826
Net Weight (kg)		139
<b>ENVIRONMENT</b>		
Operating Temperature		0-40 °C
Operating Humidity		0-95% and non-condensing
<b>MANAGEMENT</b>		
Smart RS-232/USB		Supports for all OS
Optional SNMP		Power management from SNMP manager and web browser