

TOP VISION 10-20KVA SERIES - 31UPS

Features:

- True double-conversion
- DSP technology guarantees high performance
- Output Power Factor 0.8
- Wide input voltage range (110-300 VAC) at 230VAC
- Active input power factor correction 0.99
- 50Hz/60Hz frequency converter mode
- Eco mode operation for energy saving (ECO)
- Programmable power management outlets
- Emergency power off function (EPO)
- Generator compatible
- SNMP+USB+RS-232 multiple communications
- 3-stage extendable charging design for optimized battery performance
- Maintenance bypass available



Specifications

Model	Top v 3110 k	Top v 3115 k	Top v 3120 k
Phase	3 phase in / 1 phase out		
Capacity	10000VA / 8000 W	15000VA / 12000 W	20000VA / 16000 W
Input			
Voltage Range	Low line transfer	176VAC (phase voltage) $\pm 3\%$ @100% load 110VAC (phase voltage) $\pm 3\%$ @50% load	
	Low line comeback	186VAC (phase voltage) $\pm 3\%$ @100% load 120VAC (phase voltage) $\pm 3\%$ @50% load	
	High line transfer	300 VAC (phase voltage) $\pm 3\%$	
	High line comeback	290VAC (phase voltage) $\pm 3\%$	
Frequency Range	46 ~ 54 Hz 50Hz / 56 ~ 64 60Hz		
Power Factor	0.99 @ 100% load		
THDi	< 6% @ 100% load		
Output			
Output Voltage	208/220/230/240VAC		
AC voltage regulation (batt. Mode)	$\pm 1\%$		
Frequency range (synchronized range)	46 ~ 54 Hz 50Hz / 56 ~ 64 60Hz		
Frequency range (batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz		
Current crest ratio	3:1 (max.)		
Harmonic distortion	2% THD (linear load), $\leq 5\%$ THD (non linear load)		
Transfer time	AC mode to batt. Mode	Zero	
	Inverter to bypass	Zero	
Waveform (Batt.mode)	Pure Sinewave		
Efficiency			
AC mode	89%		
Battery mode	86%	88%	87%
Battery			
Typical recharge time	9 hours recover to 90% capacity		
Charging current (max)	1A	2A	2A
Charging voltage	13.65 VDC $\pm 1\%$ per battery		
Battery type	Maintenance free lead acid batteries 12V		
Numbers	20	40	40
Indicators			
LCD panel	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions		
Alarm			
Battery mode	Sounding every 4 seconds		
Low battery	Sounding every second		
Overload	Sounding twice every second		
Fault	Continuously sounding		
Physical			
Dimensions DXWXH (mm)	592 x 250 x 576	815 x 250 x 826	815 x 250 x 826
Net weight (kgs) without battery	83	164	164
Environment			
Operation humidity	0-95% HR @ 0-40°C (non condensing)		
Working temp	0-40°C		
Noise level	Less than 58db @ 1 meter	Less than 60db @ 1 meter	
Management			
Smart RS-232/USB	Support windows 2000/2003/XP/ vista /2008, Windows 7, Linux, Unix and Mac		
Optional SNMP	Power management SNMP manager and web browser		

* Product specifications are subject to change without further notice