



AVO HPKL SERIES

- True double –Conversion online UPS-IGBT Based Rectifier & Inverter, Tower Type UPS.
- Microprocessor Control optimizes reliability ,Wide Input voltage range (110-300 VAC) ,
- Input power factor correction 0.99,Output power factor 0.8 | 0.9(Optional)-Pure Sine Wave Output
- 50Hz/60Hz frequency converter mode
- Optional programmable power management outlets, 5A/6A X 3 nos - Indian Socket inbuilt to the UPS back.
- Emergency power off function (EPO)-Settable , Auto Start & Cold Start Enabled.
- ECO mode operation for energy saving available for 1-3KVA models
- Selectable Bypass Setting-Bypass Voltage, Frequency ,Generator compatible
- High overload capability and enhanced short circuit protection
- Multi-stage smart charging design & fan speed control
- Maximum 8A extended parallel control available for long run model, Settable Charger Boost & Float Voltage
- Optional Isolation Transformer available , Inbuilt OVCD Protection
- SNMP/USB/RS-232 multiple communications, Comprehensive LCD display allows easy monitoring and access of UPS Status
- Settable Date : Inverter voltage & frequency, Frequency converter, ECO mode, ECO voltage range, Bypass setting, Bypass voltage range, Autonomy limitation setting, Battery total Ah setting, Charger current, Bypass frequency range, Programmable outlet, Programmable outlet setting, Charger boost & float voltage setting, EPO logic setting,Optional Isolation transformer @ O/P ,Display setting for autonomy, Acceptable input voltage range.

Specifications		AVO HP 1KL		AVO HP302		AVO HP 3KL	
CAPACITY		1000 VA / 800 W		2000 VA / 1600 W		3000 VA / 2400 W	
		1000 VA / 900 W		2000 VA / 1800 W		3000 VA / 2700 W	
INPUT							
Nominal Voltage		200/208/220/230/240 VAC					
Voltage Range		110 - 300 VAC ± 5 % at 50% load					
		160 - 300 VAC ± 5 % at 100% load					
Frequency Range		40 Hz ~ 70 Hz					
Power Factor		≥ 0.99 @ Nominal Voltage (100% Load)					
THDi		THDi ≤ 5% @ input and full linear load condition with battery fully charged					
OUTPUT							
Output Voltage(Settable)		208/220/230/240 VAC					
AC Voltage Regulation (Batt. Mode)		± 1%					
Frequency Range (Synchronized Range)		47~53 Hz or 57~63 Hz					
Frequency Range (Batt. Mode)(Settable)		50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz					
Current Crest Ratio		3:01					
Harmonic Distortion		≤ 3 % THD (Linear Load) ; ≤ 5 % THD (Non-linear Load)					
Power Factor		0.8/0.9					
Transfer Time	AC Mode to Batt. Mode	Zero					
	Inverter to Bypass	4 ms (Typical)					
Waveform (Batt. Mode)		Pure Sine wave					
EFFICIENCY							
AC Mode		≥90%					
ECO Mode(Settable)		97%					
Battery Mode		≥90%	90%		90%		
BATTERY							
Long-run Model	Battery Type	Depending on the capacity of external batteries					
	Numbers	2 3	6 8		6 8		
	Charging Current (max.)	1A/2A/4A/6A/8A/10A/12A/14A/16A/20A/24A (Selectable/Settable)					
	Charging Voltage(Settable)	41.0 VDC ± 1%	82.1 VDC ±1%		109.6 VDC ± 1%		
DISPLAY & INDICATORS							
Indications		UPS Mains Status(On/Off) , UPS Status, Load level, Load on Battery, Battery level, Battery on Charge, Input/Output voltage, Discharge timer, and Different Fault conditions (Bus start fail, Bus over & under, Inverter soft start failure, Inverter voltage high & low, Inverter output short, Battery voltage high & low, charger output short ,Charger Failure, Over Temperature , over input current, battery not connected , Over charge, EPO Enabled/disabled)					
Display Parameters		Input , Output , Bypass: Voltage & Frequency, Remaining time & Battery Level Indicator, Load Level indicator, Fault codes, Estimated or running autonomy time, UPS alarm enable or disable, Overload, Short circuit, Low Battery.					
ALARM							
Battery Mode Low Battery Overload		Sounding every 5 seconds Sounding every 2 seconds Sounding every second					
Fault		Continuously sounding					
PHYSICAL							
Standard Model	Dimension, Dx Wx H (mm)	336 x 144 x 214		418 x 191 x 332			
	Net Weight (kgs)	9.5		22.5		26.6 32.2	
Long-run Model	Dimension, Dx Wx H (mm)	336 x 144 x 214		418 x 191 x 332			
	Net Weight (kgs)	6		10.5		11 11	
Ingress Protection		IP20 /IP21					
ENVIRONMENT							
Humidity		0-95 % RH @ 0-55° C (Non-condensing)					
Noise Level		Less than 50dB @1Meter					
MANAGEMENT							
Smart RS-232/USB/RJ45		Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC					
Optional SNMP		Power management from SNMP manager and web browser					

*All specification are subjected to change without notice.