

AMAZE

POWER THAT DRIVES
YOUR BUSINESS



AN HKVA SERIES
3 PHASE INVERTERS

Specifications

System Rating (KVA)	10.5KVA/8kW	15KVA/12kW	20-25KVA(16kW-20kW)	30-50KVA(24kW-40kW)
Input supply	415 VAC,3 Phases, 4 wire (+15%,-20%)			
Input Frequency	50Hz ±6%			
BATTERY				
Battery Voltage	120VDC	180VDC	240VDC	360VDC
Charging current from grid	Battery Charging Current can be adjusted as per battery Capacity			
Battery Type	Tubular/VRLA			
INVERTER				
Switching Element	IGBT			
Output waveform	Pure Sine wave			
Output Voltage	415VAC ±2% 3Ph			
Output Frequency	50Hz ±1%			
Load Power Factor	0.6 lag to 1(within kVAand KW rating)			
Inverter Peak Efficiency	88%		90%	
Vthd with 100% linear load	<3%			
Galvanic isolation	Inbuilt isolation transformer at inverter output			
Voltage stability in Dynamic condition	Complies with IEC/EN 62040-3,Class1			
PROTECTION				
Protection	Input Under and Over voltage, Input Under and Over Frequency			
	Output Over load, Output short circuit, Output over and Under voltage			
	Over Temperature, Array Reverse Polarity			
	Battery Over and Under voltage			
Display Parameter, LED Indication and Alarm				
Display Parameter	Voltage Current Power • Output Voltage - Current, Total Power, Load Percentage. Battery - Voltage, Current, DC Power Event log (5No's / optional:USB storage:upto 1000no's)			
LED Indication	InverterCharger, Inverter static Switch, Load			
Alarm	Faults and Warnings			
CONFIGURATION				
Parameter Setting	All Main parameters are settable in LCD Display			
BYPASS	Manual Bypass Switch available for Maintenance and Service			
ENCLOSURE				
Degree Of protection	IP 20 (IEC 60529)			
Cooling	Forced Air cooling			
Color	Black			
Dimension (L*W*H) mm	700 x 300 x 750	770x 400 x 810	900 x 400 x 810	923 x 535 x 1090
Net Weight (Approx in Kg's)	130	140	180	260
ENVIRONMENT				
Temperature Operating	0-40°C			
Max. Relative humidity@25°C (non condensing)	Up to 95%			
Max.Altitude above sea level without de-rating	up to 1000 mtr			
CONNECTIVITY				
Communication	Modbus RS 485-Optional			

Stock Availability: 8 to 10 weeks from date of Purchase Order.

Specifications are subject to change without prior notice due to continuous improvement in design.
Select suitable battery Ah capacity as per recommended discharge current rate by the manufacturer.

Specifications

System Rating (KVA)	60KVA-80KVA(48kW-64kW)	105KVA-150KVA(80kW-120kW)	200KVA-250KVA(160kW-200kW)
Input supply	415 VAC,3Phase 4 Wire (+15%,-20%)		
Input Frequency	50Hz ±6%		
BATTERY			
Battery Voltage	360 VDC	480 VDC	672 VDC
Charging current from grid	Battery Charging Current can be adjusted as per Battery Capacity		
Battery Type	Tubular/VRLA		
INVERTER			
Switching Element	IGBT		
Output waveform	Pure Sine wave		
Output Voltage	415VAC ±2%, 3Ph		
Output Frequency	50Hz ±1%		
Load Power Factor	0.6 lag to 1(within kVAand KW rating)		
Inverter Peak Efficiency	90%		
Vthd with 100% linear load	<3%		
Galvanic isolation	Inbuilt isolation transformer at inverter output		
Voltage stability in Dynamic condition	Complies with IEC/EN 62040-3,Class1		
PROTECTION			
Protection	Input Under and Over voltage, Input Under and Over Frequency		
	Output Over load, Output short circuit, Output over and Under voltage		
	Over Temperature, Array Reverse Polarity		
	Battery Over and Under voltage		
Display Parameter, LED Indication and Alarm			
Display Parameter	•Voltage CurrentPower • Output Voltage - Current, Total Power, Load Percentage. Battery- Voltage, Current, DC Power Event log(5No's/optional:USBstorage:upto 1000 no's)		
LED Indication	Inverter Charger, Inverter static Switch, Load		
Alarm	Faults and Warnings		
CONFIGURATION			
Parameter Setting	All Main parameters are settable in LCD Display		
BYPASS	Manual Bypass Switch available for Maintenance and Service		
ENCLOSURE			
Degree Of protection	IP 20 (IEC 60529)		
Cooling	Forced Air cooling		
Color	Black		
Dimension(L*W*H) mm	731 x 888 x1465	1150 x 1150 x1940	1260 x 1104 x1850
Net Weight (Approx in Kg's)	650	800	1200
ENVIRONMENT			
Temperature Operating	0-40°C		
Max.Relative humidity@25°C (non condensing)	Up to 95%		
Max.Altitude above sea level without de-rating	1000m (For higher altitude complies with IEC/EN 62040-3)		
CONNECTIVITY			
Communication	Modbus RS 485- Optional		

Stock Availability: 8 to 10 weeks from date of Purchase Order.

Specifications are subject to change without prior notice due to continuous improvement in design.
Select suitable battery Ah capacity as per recommended discharge current rate by the manufacturer.

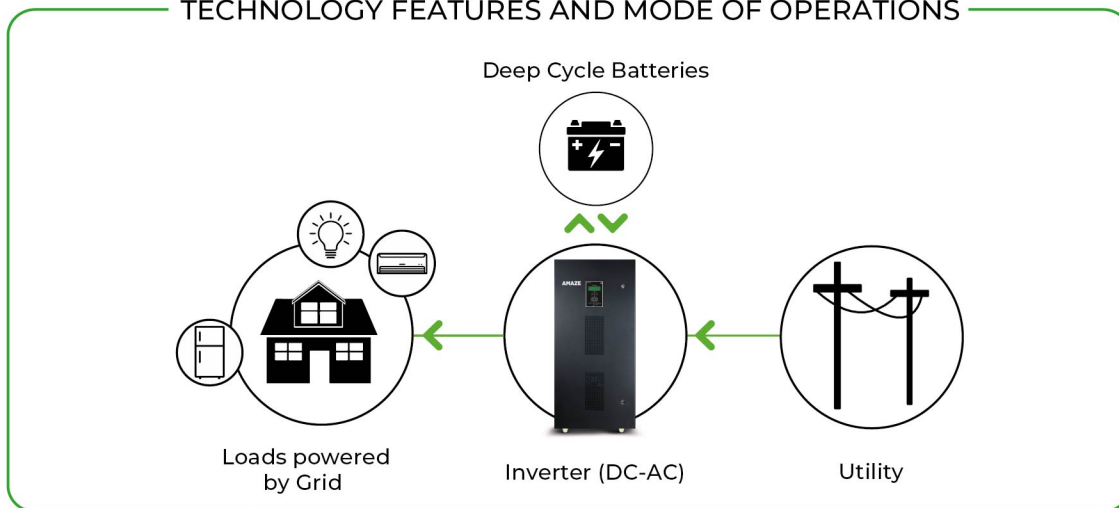
AMAZE

AN HKVA Series, 3-Phase Inverters are engineered with cutting-edge technology, that adopts high-performance digital control (DSP) for superior efficiency and precision. These inverters offer robust protection features, advanced network management capabilities, and an intuitive user interface. Designed for exceptional reliability, safety, and ease of maintenance, the AN HKVA Series represents the next generation of power solutions.

Features:

- Space vector modulation
- High efficiency
- Inbuilt galvanic Isolation transformer
- Grid side Surge protections
- MODBUS/RS-485/remote monitoring (optional)
- Alpha-numeric LCD display and MIMIC panel for real time information
- High reliability for maximum system availability
- Input side Power Factor Corrector (PFC)
- Static switch transfer technology with less than 3% VTHD
- Manual bypass switch for ease of maintenance and service
- User friendly LCD display
- Lithium-ion battery compatibility*

TECHNOLOGY FEATURES AND MODE OF OPERATIONS



Applications



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