

▸ Three-phase Hybrid Inverter

▸ Features & Advantages

- Support Time-of-use Optimization
- AFCI (Optional) & Rapid Shutdown Ready
- 100% unbalanced output, each phase;
200% unbalanced output, each phase (Below 10kW)
- Configurable Operation Modes
- Build-in Anti-feed-in Function
- Smart Monitoring & Remote Firmware Upgrade



▸ Technical Specifications

PV Input	Ares 8KHP3	Ares 10KH3	Ares 12KH3	Ares 15KH3
Max. DC Input Power	12kW	15kW	18kW	22.5kW
Max. PV Voltage		1000V		
Rated DC Input Voltage		620V		
DC Input Voltage Range		150-1000V		
MPPT Voltage Range		150-850V		
Full MPPT Range	300-850V	500-850V	500-850V	500-850V
Start-up Voltage		160V		
Max. DC Input Current		20x2A		20+32
Max. Short Current		30x2A		30+48
No. of MPPT Tracker / Strings		2/2		2/3
Battery Port				
Battery Nominal Voltage	200V	400V	450V	500V
Battery Voltage Range	80-600V	150-800V	150-800V	150-800V
Max. Charge/Discharge Current	50A	30A	30A	50A
Max. Charge/Discharge Power	8KW	10KW	12KW	15KW
Charging Curve		3 Stages		
Compatible Battery Type		Li-ion battery		
AC Grid				
Nominal AC Output Power	8kW	10kW	12kW	15kW
Max. AC Input/Output Power	12/8.8kVA	15/11kVA	18/13.2kVA	22.5/16.5kVA
Max. AC Output Current	13.5A	17A	21.5A	27A
Nominal AC Voltage		230/400V		
Nominal AC Frequency		50/60Hz		
Power Factor		1 (-0.8-0.8)		
Current THD		<3%		
AC Load Output (Back-up)				
Nominal Output Power	8000VA	10000VA	12000VA	15000VA
Nominal Output Voltage		230/400V		
Nominal Output Frequency		50/60Hz		
Nominal Output Current	11.6 A	14.5A	17.4A	21.8A
Peak Output Power	8800VA, 60s	11000VA, 60s	13200VA, 60s	16500VA, 60s
THDV (with linear load)		<3%		
Switching Time		<10ms		
Efficiency				
Europe Efficiency		97.50%		
Max. Efficiency	98.20%	98.20%	98.30%	98.30%
Battery Charge/Discharge Efficiency		98.00%		
Protection				
Reverse Polarity Protection		Yes		
Over Current / Voltage Protection		Yes		
Anti-islanding Protection		Yes		
AC Short-circuit Protection		Yes		
Leakage Current Detection		Yes		
Ground Fault Monitoring		Yes		
Grid Monitoring		Yes		
Enclosure Protect Level		IP65		
General Data				
Dimensions	558 x 535 x 260 mm	370 x 497 x 192 mm	370 x 497 x 192 mm	558 x 535 x 260 mm
Weight	29kg	20.8kg	20.8kg	29kg
Topology		Transformerless		
Cooling Concept		IntelligentFan		
Relative Humidity		0-100%		
Operating Temperature Range		-25 to 60°C		
Operating Altitude		<4000m		
Noise Emission		<30dB		
Standby Consumption		<5W		
Display & Communication Interfaces		LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G		
Certification & Approvals	NRS097, G98/G99, EN50549-1, C10/C11, AS4777.2, VDE-AR-N4105, VDE0126, IEC62109-1, IEC62109-2			
EMC	EN61000-6-2, EN61000-6-3			