



ARC Series Hybrid solar Inverter

As energy needs evolve, the demand for smarter & more reliable power solutions is rising. The ADM ARC Series Hybrid Inverters are designed to deliver seamless power across homes, institutions & commercial spaces—ensuring energy independence & uninterrupted performance.

A hybrid inverter is the heart of a modern solar system, intelligently managing power from solar panels, batteries & the grid. It allows you to use solar energy during the day, store excess power for later & automatically switch to grid supply when needed—giving you maximum flexibility & efficiency.

In a hybrid solar system, solar panels generate electricity, the inverter converts & manages this power & batteries store excess energy for backup. This integrated approach ensures optimal energy utilization, reduced electricity bills & reliable power even during outages.

Why Choose ARC Series Solar Hybrid Inverter?

Uninterrupted Power Supply

Seamless switching between solar, battery & grid

Energy Savings

Maximize solar usage & reduce dependency on grid power

Power Backup

Store excess energy for use during power outages

Smart Energy Management

Efficient utilization of all available power sources

Future Ready

Easily scalable with battery storage

Applications

Residential Rooftops

Educational & Institutional Buildings

Community Solar Projects

Key Features

Pure Sine Wave Technology

Intelligent MPPT Controller

Solar + Grid + Battery Intelligent Switching

LCD Display

WiFi / App Monitoring

Fast Charging Technology

Overload, Short Circuit & High Temperature Protections

ARC Series Single Phase Hybrid Solar Inverter Technical Specifications

Hybrid Inverter			
Model	3.2 3.6 4.2 ARC SERIES	5.5 6.2 8.2 ARC SERIES	10.2 ARC SERIES
Input			
Input Format	L+N+PE		
Rated Input Voltage	220/230/240VAC ±5%		
Voltage Range	90-280VAC +/- 3V (Normal mode) / 170-280VAC +/- 3V (UPS Mode)		
Frequency Range	50/60Hz (Adaptive)		
Output			
Battery Inverter Rated Power	3600W		5500W
Photovoltaic Inverter Rated Power	4500W		6200W
Peak Power	7200VA		11000VA
Output Voltage	220/230/240VAC ±5%		
Output Frequency	50/60Hz ±0.1%		
Waveform	Pure SineWave		
Switching Time (Adjustable)	Computer Equipment 10ms, home appliances 20ms		
Overload Capacity	Battery Mode: 11s@105%-150%, Load 2s@-200% Load, 400ms@>200% Load		
Grid-Connected Operation			
Output Voltage	220/230/240VAC		
Grid Feeding Voltage Range	195-253VAC		
Grid Feeding Frequency Range	49-51 +/- 1Hz / 59-61 +/- 1Hz		
Nominal Output Current	15.7A		
Power Factor Range	>0.99		
Maximum Conversion Efficiency (DC/AC)	0.98		
Battery			
Rated Voltage	24VDC		48VDC
Constant Voltage Charging Voltage	28.2VDC		56.4VDC
Float Charging Voltage (Configurable)	27VDC		54VDC
Charger			
PV Charging Method	MPPT		
Maximum Input Power of PV	5000W	6200W	10200W
MPPT Input Voltage Range	60-500VDC		
Optimal VMP Operating Range	300-400VDC		
Maximum PV Input Voltage	500VDC		
Maximum PV Input Current	18A		
Maximum PV Charging Current	120A		100A
Maximum Mains Charging Current	100A		60A
Maximum Charging Current	120A		100A
Display			
LCD Interface	Can Display Operation mode/load/input/output etc.		
Interface			
RS232	Baud rate 2400		
Expansion Slot Communication Interface	Lithium Battery BMS Communication Card, WiFi Card, Dry Contact Card Etc.		
Parallel Interface	No Parallel Function		Support Parallel
Environmental			
Operating Ambient Temperature	-10°C to 50°C		
Operating Environmental Humidity	20%-95% (No Condensation)		
Storage Temperature	-15°C to 60°C		
Altitude	The altitude should not exceed 1000m, and the rating will be reduced above 1000m, and the maximum altitude is 4000m , refer to IEC62040		
Noise	≤50dB		
Physical			
Dimensions (Depth x Width x Height) (mm)	433×330×138 mm		150 x 480 x 500 mm
Weight (For Reference) Kg	7.5 kg		19 Kg
Standards and Certifications	EN-IEC 60335-1, 60335-2-29, IEC 62109-1		