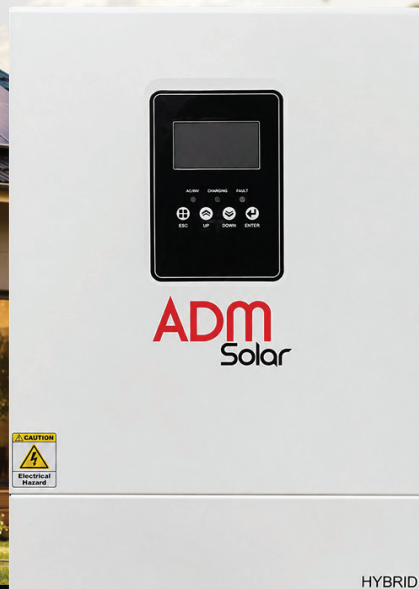




## ARC Series Hybrid solar Inverter

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                                                                                                 |                            |                  |