

AID

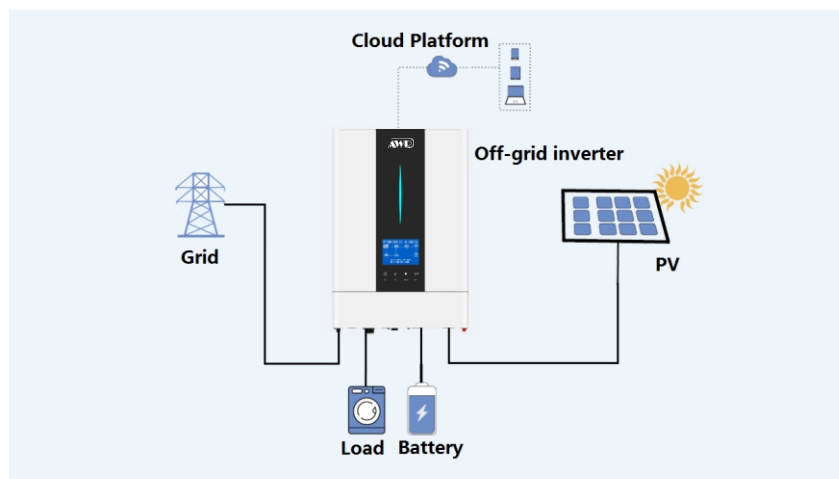
3-5KW



Features

- Elegant appearance, wall-mounted design, simplified installation
- Pure sine wave output, output power factor 1.0
- Intelligent battery charger design, optimizable battery performance, with high efficiency charging/discharging technology
- High PV input range of 120V-500Vdc
- Configurable AC grid/battery input priority
- Battery-free operation available, loads are powered directly by solar and AC grid
- Graphical LCD and keypad design, user-friendly operation interface
- Real time remote monitoring system via WiFi module, easy operation and maintenance
- Excellent output performance, suitable for all kinds of non-linear loads
- Up to 6 units can be operated in parallel

System Principle Diagram



Technical specifications

MODEL	AID 3kW		AID 5kW	
Rated power	3000 VA / 3000 W		5000 VA / 5000 W	
AC INPUT				
Rated input voltage	230 VAC			
Input voltage range	170~280 VAC PC, 90~280 VAC home application			
Rated input frequency	50 / 60 Hz self-adapting			
Input frequency range	40~65 Hz			
Rated input current	20 A		32 A	
Max. input current	30 A		40 A	
AC OUTPUT				
Rated AC output voltage	230 VAC ±3% battery mode			
Output settable voltage	220 V / 230 V (default) / 240 V			
Output settable frequency	50 Hz (default) / 60 Hz			
Rated AC output current	13.5 A		22 A	
Overload capacity	10s @ 110%~150% rated load; 5 s @ ≥150% rated load; 100 ms @ ≥200% rated load			
THDU	< 5%, linear load; < 10%, non-linear load			
Inverter efficiency (peak value)	93% (PV mode / battery mode)			
Surge power	6000 VA, 5 cycles		10000 VA, 5 cycles	
Switching time	10 ms PC, 20 ms home application			
No-load loss	<80W (PV mode / battery mode)			
DC output voltage	None			
Battery				
Battery type	Lead-acid battery / lithium battery			
Rated voltage	24 VDC		48 VDC	
Charging voltage	27 VDC (default), 24~30 VDC settable		54 VDC (default), 48~60 VDC settable	
Overcharge protection voltage	33 VDC		64 VDC	
Rated discharge current	134.5 A		115 A	
PV / AC CHARGING				
PV charging	MPPT			
Max. PV plate power	4000 W		6000 W	
Max. PV plate open circuit voltage	500 VDC			
MPPT operation range voltage	120~450 VDC			
PV input start-up voltage	80 V			
Rated PV input voltage	240 VDC			
Max. PV input current	18 A		27 A	
Max. PV charging current	100 A			
Max. AC charging current	100 A			
Max. battery charging current	100 A			
OTHERS				
Protections	Input over / under voltage protection, input over / under frequency protection, output overload, output short-circuit, radiator overtemperature protection, fan fault detection etc.			
Communication interfaces	USB / RS232 / RS485, dry contact, WiFi (optional)			
Parallel number	6 units			
Operating environment	-10℃~50℃			
IP rating	IP21			
Dimension (D x W x H) (mm)	122 × 322 × 471		122 × 322 × 471	
Weight (Kg)	11		12	