



INFI
POWER FOREVER

INF SERIES

ON&OFF GRID HYBRID SOLAR INVERTER



Pure sine wave



WiFi



Two-way energy
storage design



Configurable
working mode



Support working
without battery



RS485



Features

- Adopting high-frequency design, high power density, small size, and high overall efficiency;
- Bidirectional energy storage design, which can achieve bidirectional flow control of electrical energy, and both photovoltaic and mains electricity can be charged to the battery;
- Ultra wide MPPT range, with a minimum of 40Vdc(24V models) / 80Vdc (48V models);
- Capable of setting working modes (grid connected mode, off grid mode, hybrid mode);
- Equipped with grid connected current setting function;
- Equipped with output priority setting function;
- Equipped with charging priority setting function;
- Equipped with lithium battery BMS communication function;
- Support battery-less operation mode.

System Application Diagram



Product Display



Household



Industrial and
commercial
energy storage



Airport/high-speed
rail station



Thermal power
station/nuclear
power station



Agricultural
Irrigation



Farm use



Technical Parameters

Model: INF	18224	23224	33224
PV Input			
Max PV Input Power	2500W	3000W	5000W
MPPT Tracking Voltage Range	40Vdc~450Vdc		
Rated Voltage	240Vdc		
Max PV Input Voltage voc (at the lowest temperature)	400Vdc		500Vdc
Max PV Input Current	15A	15A	18A
MPPT Tracking Channels(Input Routed)	1 Routed		
Battery & Charging			
Battery Type	Lead-acid Battery/Lithium Battery		
	Custom Battery (Charging and discharging parameters of different types of batteries can be set through the operation board)		
Rated Battery Voltage	24Vdc		
Battery voltage Range	21~30Vdc (dafault)		
Max PV Charging Current	60A	80A	120A
Max AC Charging Current	35A	50A	80A
Max Charging Current	60A	80A	120A
On-Grid Operation (AC Output)			
Rated Output Power	1800W	2300W	3300W
Rated Output Voltage	220Vac / 230Vac / 240Vac		
Grid Voltage Range	187Vac ~ 264Vac		
Rated Output Frequency	50Hz / 60Hz		
Frequency Range	47Hz~52Hz (50Hz), 57Hz~62Hz (60Hz)		
Rated Output Current	8.1A/7.8A/7.5A	10.4A/10A/9.5A	14.5A/13.9A/13.3A
Power Factor	>0.98 (Rated Power)		
Off-Grid Operation (AC Input)			
Rated Input Voltage	220V / 230V / 240V		
Mains input voltage range	165Vac~280Vac/120 Vac~280Vac (Can be set)		
Rated input Frequency	50Hz / 60Hz		
Input Frequency Range	45Hz~55Hz (50Hz), 55Hz-65Hz (60Hz)		
Off-Grid Operation (AC Output)			
Rated Output Power	1800W	2300W	3300W
Rated Output Voltage	220V / 230V / 240 V		
Output Voltage Acouracy	±2%		
Rated Input Frequency	50Hz/60Hz		
Output Frequency Accuracy	±1%		
Output Wave	Pure Sine Wave		
Hybrid Operation (AC Input)			
Rated Input voltage	220V / 230V / 240 V		
Mains Input voltage range	187Vac~264Vac		
Rated Input Frequency	50Hz/60Hz		
Input Frequency Range	47Hz~52Hz(50Hz), 57Hz-62Hz(60Hz)		
Hybrid Operation (AC Output)			
Rated Output Power	1800W	2300W	3300W
Rated Voltage	220Vac / 230Vac / 240 Vac		
Output Current	8.1A/7.8A/7.5A	10.4A/10A/9.5A	14.5A/13.9A/13.3A
Regular Parametars			
Maximum Conversion Efficiency (Battery Discharge)	94%(peak Value)		
MPPT Tracking Efficiency	≥ 99.9		
Transfer Time	10ms(Typical Value)		
Display	LCD+LED		
Cooling Method	Cooling Fan In intelligent Control		
Communication	RS485/Mobile APP (WIFI Monitoring or GPRS Monitoring) (Optional)		
Protection Degree	IP20		
Installation	Wall-Mounted		
Protect			
Battery low voltage alarm	22Vdc (dafault Value)		
Battery low voltage protection	21Vdc (dafault Value)		
Anti-islanding protection	≤2S		
Overload power protection	Automatic Protection (battery model), Circuit Breaker or insurance (AC mode)		
Output short circuit protection	Automatic PRotectioN (battery mode), Circuit Breaker or Insurance (AC mode)		
Temperature protection	>90oC (turn of inverter and charging)		
Environment			
Operating temperature	- 10C~50oC		
Storage temperature	-15C~60oC		
Noie	≤55db		
Elevation	2000m (More than derating)		
Humidity	0%~95%, No condensation		
Dimensions And Weight			
Product Size(L*W*Hmm)	285*250*91		325*275*102
Package Size(L*W*Hmm)	360*305*156		400*330*167
N.W.(kg)	4.2	4.5	5.5
G.W.(kg)	5.2	5.5	6.5

Note: 1. Specifications are subject to change without prior notice.