



## Single Phase Inverter

3 to 6 KW

### Specification

Rated Amps	: <b>18A</b>
Battery Input	: <b>1</b>
Support	: <b>LV Battery</b>
Switch over time	: <b>10 ms</b>
Inverter in Parallel	: <b>6</b>
Efficiency	: <b>98%</b>

### Features

- Time of Use
- 150% Overloading
- Anti Islanding production
- Supports old & new battery on same inverter

Vega Series

# Single Phase Inverter



Model Name	FV-3-1P-HB	FV-3.6-1P-HB	FV-4-1P-HB	FV-4.6-1P-HB	FV-5-1P-HB	FV-6-1P-HB
<b>Off-grid Output</b>						
Nominal Output Power	3000W	3600W	4000W	4600W	5000W	6000W
Nominal Voltage	220V/230V/240V					
Nominal Frequency	50/60Hz					
Nominal Output Current	13.6A	16.4A	18.2A	20.8A	22.7A	27.2A
Output THDu	< 2%					
<b>On-grid Parameter</b>						
Nominal Output Power	3000W	3600W	4000W	4600W	5000W	6000W
Max. Output Current	13.6A	16.4A	18.2A	20.8A	22.7A	27.2A
Nominal Grid Voltage	220V/230V/240V					
Max. Input Current from Grid	16.4A	22.7A		27.2A		
Grid Voltage Range	184-276V					
Frequency Range	45-65Hz					
<b>PV Input</b>						
Max. Input Power	4500Wp	6000Wp		7500Wp		9000Wp
Starting Voltage	95V					
Max. Input Voltage	600V					
MPPT Voltage Range	80-550V					
Full Load MPPT Voltage Range	350-500V					
Number of MPPT	2					
Max. Input String Per MPPT	1					
Nominal Input Voltage	360V					
Max. Input Current	18A/18A					
<b>Battery Parameter</b>						
Battery Type	Lithium-ion					
Nominal Battery Voltage	51.2V					
Battery Voltage Range	42-58V					
Max. Charging Voltage	≤ 60V					
Max. Continuous Charging/Discharging Current	75A	85A		100A		
<b>Efficiency</b>						
Max. Efficiency	97.5%		97.8%		98.0%	
European Efficiency	97.2%		97.3%		97.5%	
Max. Battery Charging/Discharging Efficiency	95.2%					
<b>General Data</b>						
Size(W*H*D)	500mm*470mm*180mm					
Weight	21 kg					
Noise	< 25dB(A)					
Operating Temperature Range	-25°C~+60°C					
Cooling Method	Natural cooling					
Ingress Protection Grade	IP65					
Monitoring	LED/APP/WIFI/4G/Bluetooth					
Communication Port	RS485/CAN/DRED/Dry contact/Parallel port					
Protection	DC Switch, PV Insulation Resistance Detection, Residual Current Monitoring, Anti-islanding Protection, Reverse Polarity Protection(PV&Battery) AC Short Circuit Protection, AC Overcurrent Protection, AC Overvoltage Protection:LEVEL III;PV&Battery:LEVEL II, Surge Protection, Lightning Protection:TYPE II					
Warranty	5 Years					
<b>Certification</b>						
CE_LVD	IEC 62109-1, IEC 62109-2, EN 62109-1, EN 62109-2					
CE EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4					
Grid	VDE-AR-N 4105, C10-11,G98/G99, CEI 0-21, EN50549, NRS 097-2-1, AS 47772, R25,UNE217001,UNE217002,NTS 2.1					



## Three Phase Inverter

10 to 20 KW

### Specification

Rated Amps	: 25A
Battery Input	: 2
Support	: HV Battery
Switch over time	: 10 ms
Inverter in Parallel	: 15
Efficiency	: 98%

### Features

- Time of Use
- 150% Overloading
- Anti Islanding production
- Unbalance Load 100%
- Supports old & new battery on same inverter

Vega Series

# Three Phase Inverter

Model Name	FV-10-3P-HB	FV-12-3P-HB	FV-15-3P-HB	FV-18-3P-HB	FV-20-3P-HB
<b>Off-grid Output</b>					
Nominal Output Power	10kW	12kW	15kW	18kW	20kW
Nominal Voltage	3/N/PE, 220/380Vac, 230/400Vac				
Nominal Frequency	50/60Hz				
Output THDu	<3%				
Nominal Output Current	15A	18A	22.5A	27A	30A
<b>On-grid Parameter</b>					
Nominal Output Power	10kW	12kW	15kW	18kW	20kW
Max. Output Power	11kVA	13.2kVA	16.5kVA	19.8kVA	22kVA
Max. Input Power from Grid	20kVA	24kVA	30kVA	36kVA	40kVA
Max. Input Current from Grid	29A	35A	44A	52A	58A
Max. Output Current	16A	20A	24A	29A	32A
Nominal Grid Voltage	3/N/PE, 220/380V, 230/400V, 240/415V				
Grid Voltage Range	184-276V/320-480V				
<b>PV Input</b>					
Max. Input Power	15000Wp	18000Wp	22500Wp	27000Wp	30000Wp
Max. Input Voltage	1000V				
Number of MPPTs	2				
Max. Input Strings Per MPPT	2				
MPPT Voltage Range	180-960V				
Full Load MPPT Voltage Range	250-850V	290-850V	350-850V	410-850V	450-850V
Nominal Input Voltage	600V				
Starting Voltage	200V				
Max. Input Current	25A/25A				
Short-Circuit Current	30A/30A				
<b>Battery Parameter</b>					
Battery Type	Lithium-ion				
Number of Battery Input	2				
Battery Voltage Range	180-800V				
Full Load Battery Voltage Range	210-800V	250-800V	300-800V	360-800V	400-800V
Peak Charging/Discharging Current & Duration	35A/35A(60s)				
Max. Charging/Discharging Current	25A/25A				
<b>Efficiency</b>					
Max. Efficiency	98.20%				
European Efficiency	97.70%				
Max. Battery Charging/Discharging Efficiency	97.80%				
<b>General Data</b>					
Size(W*H*D)	573mm*509mm*219mm				
Weight	35kg				
Noise	<45db(A)				
Operating Temperature Range	-25°C~+60°C				
Cooling Method	Air Cooling				
Ingress Protection Grade	IP65				
Communication Port	RS485/CAN/DRED/Dry contact/Parallel port				
Monitoring	LED/APP/WIFI/4G/Bluetooth				
Protection	DC Switch, AC Overvoltage Protection, AC Overcurrent Protection, AC Short Circuit Protection, Anti-islanding Protection, Residual Current Monitoring, PV Insulation Resistance Detection, Surge Protection:LEVEL II, Reverse Polarity Protection(PV&Battery);Lightning Protection				
Warranty	5 Years				
<b>Certification</b>					
CE_LVD	IEC 62109-1, IEC 62109-2, EN 62109-1, EN 62109-2				
CE EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4				
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