








Hybrid Inverter

F-IVT201

Three Phase, Low Voltage



Features

-  100% three-phase unbalanced output, each phase can output up to 50% of the rated power
-  Support AC coupling to retrofit existing solar systems
-  Frequency droop control supports up to 10 parallel machines
-  Maximum charge and discharge current 240A
-  48V low voltage battery, built-in transformer safety isolation
-  6 time periods that can be set for different working modes
-  Direct support for diesel generator power without external converter

Technical Data

Model	F-IVT201-8	F-IVT201-10	F-IVT201-12
DC Input			
Maximum DC Input Power [W]	10400	13000	15600
Rated DC Input Voltage [V]	550(160-800)		
Starting Voltage [V]	160		
Mppt Voltage Range [V]	200-650		
Full Load Mppt Voltage Range [V]	350-650		
Maximum DC Input Current For Each Series [V]	13+13	26+13	
Maximum DC Short Circuit Current [V]	17+17	34+17	
AC Input			
Rated AC Output Power And Ups Power [W]	8000	10000	12000
Max AC Output Power [W]	8000	11000	13200
AC Rated Output Current [A]	12.1	16.7	18.2
Maximum AC Current [A]	13.4	18.4	20
Maximum Output Short-Circuit Current [A]	75		
Maximum Continuous AC Current [A]	45		
Power Factor	0.8(lead)-0.8(lag)		
AC Output Frequency [Hz]	50/60		
AC Voltage [VAC]	220/380, 230/400 (three-phase)		
Protection			
Photovoltaic Input Lightning Protection	Yes		
Island Protection	Yes		
DC Polarity Reverse Protection	Yes		
Insulation Impedance Detection	Yes		
Leakage Current Monitoring Protection	Yes		
Output Overcurrent Protection	Yes		
Output Short-Circuit Protection	Yes		
Output Overvoltage Protection	Yes		
Surge Protection	DC level 3 lightning protection, AC level 3 lightning protection		
Overload Voltage Protection	DC level 2 lightning protection, AC level 3 lightning protection		
Battery Data			
Battery Type	Lead-Acid Battery Or Lithium Battery		
Battery Voltage Range (V)	40-60		
Maximum Charging Current (A)	160	200	240
Maximum Discharge Current (A)	160	200	240
External Temperature Sensor	Yes		
Lithium Battery Charging Management System	Adaptive BMS System		
Efficiency			
Maximum Efficiency	97.60%		
European Weighted Efficiency	97%		
Mppt Efficiency	99%		
General Information			
Operating Ambient Temperature Range [°C]	-40-60°C, >45°C Derating		
Cooling Mode	Smart Cooling		
Noise Index [db]	≤50		
Bms Communication Port	RS485; CAN		
Intelligent Monitoring	Wi-Fi + APP		
Weight [kg]	37.5		
Dimensions [mm]	702*422*281 (Excluding Connectors and Brackets)		
Class Of Protection	IP65		
Installation Mode	Wall-mounted		
Quality Guarantee	5 Years (10 Years Optional)		
Certifications	IEC61727/62116, EN50549-1, IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		