Novapower

1 Phase In - 1 Phase Out / 6kVA - 10kVA

- On-Line Double Conversion Technology
- Real Digital Signal Processor (DSP) Controller
- Power Factor Correction
- High output power factor
- Integrated Manual Bypass
- Low total harmonic distortion (THD) level
- Transformerless Design
- High Performance with the PWM Sinewave Topology
- Cold Start Function
- Intelligent Battery Management System extends the life time of batteries
- Overload, Overheat & Short Circuit Protections
- Emergency Shutdown Control through EPO
- User Friendly Multi-Functional LED/LCD Display Panel
- Energy Saving Mode (ECOMODE)
- RS232 Communication Port & Management Software
- Internal SNMP, Dry contact and RS485 card options
- Possible to operate as 50Hz/60Hz Frequency Converter
- Extended Back up time with External Battery Cabinet

VFI TYPE UPS ONLINE | TOWER | LCD DISPLAY | SERVICE

TECHNICAL SPECIFICATIONS

MODEL	FP1106	FP1110
Power (kVA)	6	10
Power (kW)	5.4	9
INPUT		
Phase Configuration	1Ph + N + PE	
Nominal Voltage	220V/230/240V	
Minimum Voltage	180 V	
Maximum Voltage	280 V	
Frequency	45 - 65 Hz	
Power Factor	0.99	
OUTPUT		
Power Factor	0.9	
Phase Configuration	1Ph + N + PE	
Nominal Voltage	220V / 230 / 240V (adjustable)	
Wave Form	Pure Sine Wave	
Total Harmonic Distortion at 100% linear load	<3%	
Frequency	50Hz or 60Hz (adjustable)	
Frequency Tolerance (free running)	±0.2 %	
Static Voltage Regulation (0%-100% load)	<1%	
Crest Factor	3:1	
Transfer Time	0 sec	
Overload	2min @ (100%-120%) 30sec @ (120%-150%) Transfers to Bypass @150%	
Total Efficiency	>94%	
BATTERY		
Type	Maintenance-free lead acid batteries	
Recharge Time (for Internal Battery)	4-6h up to 90%	
Quantity per String	20 pcs 12V Batteries	
Voltage	240VDC	
Internal Batteries (Optional)	4,5Ah, 7Ah, 9Ah	7Ah, 9Ah
Cold Start	Present	
DISPLAY		
LED + LCD Display	Line Mode, Back up Mode, Eco Mode, Bypass Supply, Battery Low, Battery Bad/Disconnect, Overload, UPS Fault, Interruption during transfer	
LCD Display	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load%, Battery Voltage, Internal Temperature	
Self Diagnostics	Upon Power On, Front Panel Setting and Through Software Control, 24h routine Check	
PROTECTION		
Overload Protection	Bypass transfer time is calculated by simulating a temperature related model of a fuse	
Short Circuit Protection	Acts as the ideal current source during the short circuit time	
Other Protection	Against excessive (heat, voltage, current) intense battery discharge	
COMMUNICATION		
Interface (Communication ports)	Standard RS232 port and optional RS485, Internal SNMP, Dry Contact Cards	
ENVIRONMENT		
Operating Temperature	0 °C.... + 40°C	
Proposed Temp. to extend battery life	20 - 25 °C	
Humidity	0 - 95% (non-condensing)	
Audible Noise at 1 m	<50 dB	
Protection Class	IP 20	
PHYSICAL SPECIFICATIONS		
Dimensions(mm) (HxWxD)	255x634x586	
Weight - without battery (kg)	25,7	27,4
STANDARDS		
Standards	EN62040-1-1 (Safety); EN62040-2 (EMC)	
ACCESSORIES		
Optional	Internal&External SNMP, Dry Contact Board, Monitoring and Management Software, Internal Battery Holder Apparatus, Additional Charging Set	