

DSP Flexipower Series

*On-Line Double Conversion Technology
1Phase in / 1 Phase out 3kVA to 10kVA*

- ▶ *On-Line Double Conversion Technology*
- ▶ *Real Digital Signal Processor (DSP) Controller*
- ▶ *Power factor correction*
- ▶ *High output power factor*
- ▶ *Parallel redundant operation up to 4 units (excluding 3kVA)*
- ▶ *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*
- ▶ *User Friendly Multi-Functional LED/LCD Display Panel*
- ▶ *Emergency shut down control through EPO*
- ▶ *Energy Saving Mode (Ecomode)*
- ▶ *Extended back up time with external battery cabinet*
- ▶ *RS232 Communication Port & Management Software*
- ▶ *Internal SNMP, Dry contact and RS485 card options*



DSP Flexipower Series Technical Specifications

TYPE	FP1103	FP1105	FP1106	FP1108	FP1110
Power (kVA)	3	5	6	8	10
Power (kW)	2,4	4,5	5,4	7,2	9
INPUT					
Phase Configuration	1Ph + N + PE				
Nominal Voltage	220V/230/240V				
Minimum Voltage	160V	180V			
Maximum Voltage	288V	280V			
Frequency	± 5 Hz	45-65 Hz			
Power Factor	0,99				
OUTPUT					
Power Factor	0,8	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	0sec				
Overload	30sec @ (%106-%120)	2min @ (%100-%120)			
	10sec @ (%120-%150)	30sec @ (%120-%150)			
	Transfer to bypass @ %150				
Total Efficiency*	≥90%	≥92%			
BATTERY					
Type	Maintenance-free lead acid batteries				
Recharge Time	4-6h up to 90%				
Voltage	72VDC (6 pcs 12V Batteries)	240VDC (20 pcs 12V Batteries)			
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	up to 90% (non-condensing)				
Audible Noise at 1 m	<50 dB				
PHYSICAL SPECIFICATIONS					
Dimensions(mm) (HxWxD)	449x226x454	585x255x741			
Weight - without battery	19	30	38		
STANDARS					
EMC	EN62040-2				
LVD	EN62040-1-1				
PROTECTION	IP20				
*Global Efficiency depends on UPS power and environmental conditions.					

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