



ALFA

PFC ONLINE UPS

CORE FEATURES



GALVANIC
ISOLATION



HIGH & LOW
CHARGING



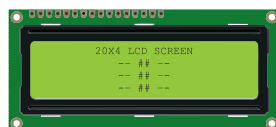
PFC CHARGER



INDUSTRIAL MODBUS
MEGATECH COMM



ADVANCED
DSP TECHNOLOGY



20X4 LCD DISPLAY



IGBT DESIGN

- Big Display for Data
- Built-in Energy Meter
- RS-232 (Industrial Standard MODBUS or Megatec)
- Incorporated with Microchip and ST DSP Engines
- Safety and Protections
- 30% More Power Saving (Power Factor Correction)

- IGBT based design and Fast Charging
- 6 Stage Battery Charging
- Multiple Battery Selection
- Sleek & Aesthetic design
- High & Low Charging Option
- Better Output Regulation
- Cold Start Through Mains Supported

ALFA - PFC ONLINE UPS						
Technical Specifications						
Parameters	Units	Rating				
Model	CONTINUO	3KVA	5KVA	7.5KVA	10KVA	15KVA
Operating DC Voltage	Volts	96V	180V	180V	180V	240V
PFC Parameters						
Mains Input Range (Min - Max)	Volts	165-265 +/- 2%				
PFC Based Mains Charger						
Switching Element	IGBT MODULE					
Controller Type	DSP					
Type of Charger	PFC					
Efficiency	95%					
Battery Charging Stages	5 Stages (Soft Start, Boost, Absorption, Float and Equalize)					
Power Factor	0.8 pf					
Battery						
Low Cut Off	Volts	10.5 / Battery +/-2%				
Low Cut Off Recovery	Volts	11.5 / Battery +/-2%				
Low Buzzer	Volts	10.7 / Battery +/-2%				
High Cut Off	Volts	15.5 / Battery +/-2%				
High Cut Off Recovery	Volts	15.0 / Battery +/-2%				
Boost Charging Volt by Grid(TUB)	Volts	14.0 / Battery +/-2%				
Boost Charging Volt by Grid(SMF)	Volts	13.75 / Battery +/-2%				
Charging Current by Grid	Amps	[2.5 (Normal) / 5 (High) +/- 2% (Default)] or [5 (Normal) / 10 (High) +/- 2% (Optional)]				
Output						
Output @ No load	Volts	230 +/- 2%				
Output Frequency	Hz	50 +/- 2%				
Overload	Amps	10.5	17.4	26.1	34.8	52.2
	Watts	2.4KW	4KW	6KW	8KW	12KW
Output Low Retry	-	1 time				
Output Short Circuit	-	1 time				
No Load Battery Current	%	2%				
Display						
Display	Alphanumeric	20X4 LCD				
Parameters	Output (Inverter)	Voltage, Current, Power and Frequency				
	Input (Grid)	Voltage and Frequency				
	Battery	Voltage, Current				
	Status/Faults	Inverter Status, Mains Status, Charger Status and Battery Status/Charging Stages				
Mains						
No of Phase	-	1Phase-3Wire P,N,E				
Voltage range	Volts	165-280 +/- 2%				
Frequency range	Hz	45-55 +/- 2%				
Battery Charging Stages	-	5				
Inverter						
Switching Element	-	MOSFET				
Output voltage	Volts	230				
Phase	-	1Phase-3Wire P,N,E				
Output Waveform	-	Digitally Filtered Pure Sine Wave				
Frequency	Hz	50				
Output Power Factor	Pf	0.8				
Mains Bypass in case of Fault	Static By Pass (Optional)					
Overload Retry	-	3				
Switch	-	System ON/OFF, HIGH/LOW Charging Selection,SMF/TUB Battery Selection				
Indication	-	UPS On, Mains In Range, Battery Low/High, Charger On, Overload, Faults				
Alarm	-	Battery Low, Overload, Charger On, UPS ON				
Protection	-	Overload,Short Circuit Protection,Over Voltage,Mains Surge and Transient protection (MOV Varistors),Reverse Polarity of Battery,Over temperature Protection,under voltage and over voltage Protection				
Cooling	-	Forced Air cooling(Temp Controlled)				
Communication	-	Remote Monitoring System (Over GPRS / BLE and Wifi) or RS232 (Megatec)				
Operating Temp	C	0-50				
Operating Humidity	%	95				
Protection Class	-	IP20				
Dimension(LXWXH)	mm	510x460x305	750x500x350	750x500x350	750x500x350	750x500x350
Weight	KG	20	30	40	50	70