



PENTAA POWER SOLUTIONS

1 - 10 kVA

USER CONFIGURABLE

ALFA PFC ONLINE UPS

- ◆ **LCD Display**
Input Voltage & Frequency, Output Voltage & Frequency, Load %, Charging Current, Battery Voltage, UPS Status
- ◆ **Active Power Factor Correction**
DSP Controlled, Unity Power Factor on Full Load, Reduces input AC Current to half in comparison to SCR Charger.
- ◆ **Customization Available**
- ◆ **Single Card Including Inverter, Charger & Power Device**
All in One Single Card with DSP controller.
- ▲ **Communication**
SNMP/ETHERNET
RS232
USB



TECHNICAL SPECIFICATION

Alfa Online PFC (Half Electricity Consuming) Series : 1 Phase in - 1 Phase out

INPUT								
Power Rating	kVA	1	2	3	5	7.5	10	
DC Voltage	V	96		120 / 180		180		
Voltage Range	V	145 to 280			175 to 280			
Frequency	Hz	50±5%						
Input Power Factor		0.95 @ up to 120VDC, 0.84 @ 180VDC						
Charge Topology		BUCK - IGBT						
Electrical Connection	Input	2.5 mm ²	4 mm ²	6 mm ²	6 mm ²	12 mm ²	16 mm ²	
	Output	1.5 mm ²	2.5 mm ²	2.5 mm ²	4 mm ²	6 mm ²	8 mm ²	
	96V	4 mm ²	4 mm ²	10 mm ²	12 mm ²	NA		
	Batt. 120V	4 mm ²	4 mm ²	6 mm ²	12 mm ²	NA		
	180V	2.5 mm ²	4 mm ²	4 mm ²	6 mm ²	10 mm ²		
	Earth	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	12/16 mm ²		
OUTPUT								
Load Current	A	3.5	7.0	10.4	17.3	26.0	34.7	
Voltage	V	220/230						
Voltage Regulation	%	±1						
Frequency (Free Running)	Hz	50±0.05						
Frequency Sink Mode	Hz	47.5 - 52.5						
Wave Form		Pure Sine Wave						
Transient Response	%	<8(10%~90% Liner Load)						
Voltage Harmonic	%	<3 Liner Load						
Over Load Capacity	%	100-110 : 10min 150 - 200 : 10 sec. 110 - 125 : 2min 200 - 300 : 50ms 125 - 150 : 1min						
Crest Factor		3.1						
AUDIBLE WARNING								
Battery Back-up Ending		Intermittent						
Over Load		Continuous						
DISPLAY								
LED		UPS ON # Battery High/Low # Overload # O/P High/Low # Charging ON # Mains Low/High, Bypass, Fault/Overheat.						
PROTECTION								
		Output Overvoltage #Output undervoltage #Overload #Output Short Circuit #Battery Overvoltage #Battery undervoltage, Input Low/High.						
PARAMETER								
LCD Display		Input Voltage & Frequency, Output Voltage & Frequency, Load %, Charging Current, DC Voltage, UPS Status						
INTERFACE								
DB 9 (Optional)		RS 232/ USB Port, Ethernet						
OTHERS								
Battery Start		Standard						
Cabinet Wheels		NA	Standard					
Extended Battery Chg.		Optional						
Bypass		Auto Bypass By Relay				Static Bypass (Optional)		
							Default Rotary Switch	
Auto Bypass (Low-High Cut)	V	185 to 250						
Static Bypass (Low-High Cut)	V						185 to 250	
OVERALL								
Efficiency (AC-AC)	%	>85**(Full Load)						
Transfer Time (Mains to Batt.)	mS	0						
Temperature	°C	0-40						
Humidity	%	5-95(Non-Condensed)						
Dimension (LxWxH)	mm	460 x 260 x 445			610 x 285 x 540		613 x 330 x 670	
Weight	Kg	40		45	60 65		70 100	

*Specification are subject to change without prior notice due to constant improvement in design & technology.



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