

PowerMacs H+ Series

3-Ph In 3-Ph Out Online UPS

Model No.		PM20PLUS	PM40PLUS	PM80PLUS	PM100PLUS	PM160PLUS	PM200PLUS
Ratings		20KVA	40KVA	80KVA	100KVA	160KVA	200KVA
Inverter Switching Element		IGBT					
Inverter Charger Topology		IGBT Based Buck/SCR Based Rectifier			12 Pulse SCR Based Rectifier		
Controller		32-Bit ARM Processor					
Nominal DC		240V	360V	360V	384V	480V	480V
Inverter Parameters							
Output Voltage	PH-NE	230V ± 10% , 1 ϕ					
	PH-PH	400V ± 10% , 3 ϕ					
Max Output Current	R-Phase	22A	44A	85A	105A	180A	220A
	Y-Phase	22A	44A	85A	105A	180A	220A
	B-Phase	22A	44A	85A	105A	180A	220A
Output Frequency		50Hz ± 1					
Isolation Transformer		Provided Inbuilt					
Crest Factor		3:1					
Output Waveform		Pure Sinusoidal					
THD	Linear Load	< 3%					
	Non Linear Load	< 5%					
Overload		> 100%					
Inverter Efficiency		> 85%					
Protections & Alarm		Over and Under Voltage Grid, Over Load, Battery Low & High , Short Circuit, Over Temperature					
Remote Monitoring Port RS232/RS485 (Modbus)		Optional					
Grid Input Parameters							
Nominal Grid Voltage		415V, 3 ϕ					
Grid Frequency Range		50Hz ± 1%					
Input Voltage Range		350V - 480V, 3 ϕ					
Battery Parameters							
Battery Charging	Grid	10A ± 1A (Please consider derating factor also)					
Charging Voltage	Grid	270V ± 5V	405V ± 5V	405V ± 5V	432V ± 5V	540V ± 5V	540V ± 5V
Battery Low Buzzer		218V ± 5V	328V ± 5V	328V ± 5V	350V ± 5V	437V ± 5V	437V ± 5V
Battery Low Cut		216V ± 5V	324V ± 5V	324V ± 5V	345V ± 5V	432V ± 5V	432V ± 5V
Battery Low Reconnect		236V ± 5V	354V ± 5V	354V ± 5V	377V ± 5V	472V ± 5V	472V ± 5V
Battery High		300V ± 5V	445V ± 5V	445V ± 5V	450V ± 5V	600V ± 5V	600V ± 5V
Display Parameters		LCD display for Input & Output - Voltage, Current & Frequency, Battery - Voltage & Current					
Display Alarms		Output load Percentage, Overload time, Mains - On / Fail / High / Low , DC - On / High, Battery - Low Pre-alarm / Low Trip Inverter - On / Trip / High / Low / Over Load, Temperature					
Switchgear		Grid MCCB, Battery MCCB, Load MCCB					
Enclosure		IP 20					
Operating Temp.		0 to 40 Deg C					
Humidity		Upto 95% Rh (non-condensing)					
Cooling		Forced Air					
Dimensions in mm (L X W X H)		1000 X 550 X 900		1130 X 1120 X 1600		1300 X 1300 X 1800	
Bypass Switch		Manual Rotary Switch	Optional Static Switch				
Wheels		Provided					