

SUNBEE H+ Series (15-100 KVA)

3-Ph In 3-Ph Out Off Grid MPPT Solar PCU

Model No.	SBH15PLUS	SBH20PLUS	SBH40PLUS	SBH60PLUS	SBH80PLUS	SBH100PLUS	
Ratings	15 KVA	20 KVA	40 KVA	60 KVA	80 KVA	100 KVA	
Switching Element	IGBT						
Inverter Charger Topology	IGBT Buck						
Solar Charger Topology	IGBT Based MPPT Buck Converter						
Controller	32-Bit ARM Processor						
Max. Battery Capacity	200AH						
Inverter Priority Mode [Grid, Solar, Battery]	G»S»B		S » G » B (Default)				
	S»G»B						
	S»B»G						
PV Parameters (With Inbuilt MPPT Charge Controller)							
Solar Input Voltage Range(Min - Max)	420V-750V	500V-850V	500V-850V	500V-850V	500V-850V	500V-850V	
Maximum Solar Current	50A	75A	65A	80A		55A	
Nominal DC	240V	360V	360V	360V	384V	384V	
Inverter Parameters							
Output Voltage	PH-NE	230V ± 10% , 1φ					
	PH-PH	400V ± 10% , 3φ					
Max Output Current	R-Phase	17A	23A	46A	70A	90A	105A
	Y-Phase	17A	23A	46A	70A	90A	105A
	B-Phase	17A	23A	46A	70A	90A	105A
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						
Nominal Grid Voltage	230V, 1φ						
Nominal Grid Frequency	50Hz						
Input Low Cut Voltage	170V ± 5V						
Input Low Recovery Voltage	> 180V ± 5V						
Input High Cut Voltage	270V ± 5V						
Input High Recovery Voltage	< 260V ± 5V						
Input Frequency Range	47Hz - 53Hz						
Grid Input Parameters							
Nominal Grid Voltage	415V, 3φ						
Grid Frequency Range	50Hz ± 1%						
Input Voltage Range	350V - 480V, 3φ						
Battery Parameters							
Battery Charging	Grid	10A ± 1A (Please consider derating factor also)					
Charging Voltage	Grid	270V ± 5V	405V ± 5V	405V ± 5V	405V ± 5V	432V ± 5V	432V ± 5V
Battery Low Buzzer		218V ± 5V	328V ± 5V	328V ± 5V	328V ± 5V	350V ± 5V	350V ± 5V
Battery Low Cut		216V ± 5V	324V ± 5V	324V ± 5V	324V ± 5V	345V ± 5V	345V ± 5V
Battery Low Reconnect		236V ± 5V	354V ± 5V	354V ± 5V	354V ± 5V	377V ± 5V	377V ± 5V
Battery High		300V ± 5V	445V ± 5V	445V ± 5V	445V ± 5V	450V ± 5V	450V ± 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			
Bypass Switch	Manual Rotary Switch	Optional Static Switch					
Wheels	Provided						