



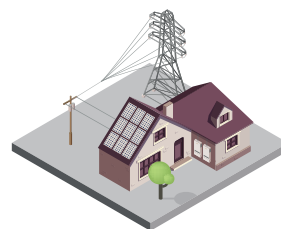
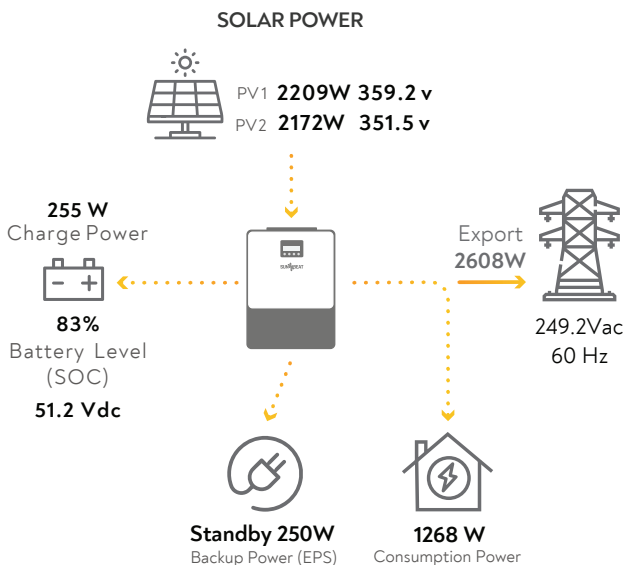
Solar Hybrid Inverter Pro Series

SB8051Pro • SB1051Pro • SB1251

SunBeat Hybrid inverters enable owners to save money, prepare for power outages, and help protect the environment using solar energy.

- 120V/240 Vac single or split phase, 50/60 Hz
- 8.000, 10.000 and 12.000 Watts continuous power 48V models
- Integrates utility and generator with dual AC inputs
- Integrated dual mppt solar chargers
- Peak efficiency of 98% transformerless design
- Solar off grid, solar grid tie for net metering
- DC coupled architectures
- Time of use, Grid zero, smart load and backup functionalities
- Intelligent features; enables load or battery prioritization
- Smart battery charging
- Full monitoring software for clients and partners
- One location for DC and AC electrical connections
- Easy to install, compact wall mounted design
- Pair up to four SunBeat Li-ion batteries
- UL certified

PRODUCT APPLICATIONS



On grid, backup and self-consumption



Off-grid solar



Community electrification



Backup power

Always refer to the manufacturer's manual for official guidelines, specifications, and instructions to ensure proper use and compliance with safety and performance standards.

A multi functional inverter, solar charger and battery charger for simple and faster solar installations.

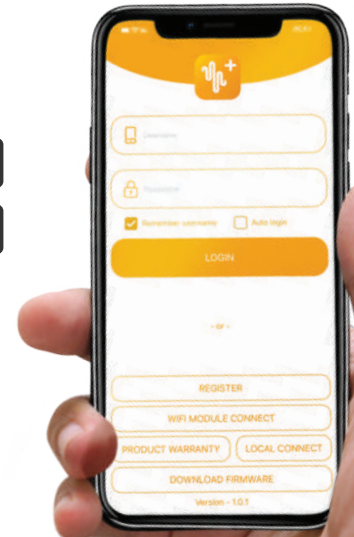
	SB8051PRO	SB1051PRO	SB1251
Solar			
Max usable input current(A)	25/25		25/15/15
Max short circuit input current(A)	34/34		34/17/17
Start input voltage(V)	100		100
Startup voltage(V)	140	230-500	140
Full power MPPT voltage range(V)			
DC nominal voltage(V) MPPT tracker	170-480		230-480
DC voltage range(V)	100-600		100-600
MPPT operating voltage range(V)	12000	120-480	15000
Max power(W)			18000
Number of MPPT(Strings per MPPT)	2(2/2)		3(2/1/1)
Battery			
Type	167	Lead-acid /Lithium	250
Max charge/discharge current(A)	48	210	48
Nominal voltage(V)		48	
Voltage range(V)		40-60	
Grid and UPS			
Nominal output current(A)	35	43	50
Max output current(A)	38,5	47,5	50
Operating voltage range(V)	120/240/208	120/240/208	120/240/208
Nominal power output(W)	8000	10000	12000
Max. apparent AC power(VA)	8900	11000	13200
Operating frequency range(Hz)	55-65	55-65	55-65
Phase shi (cosφ)	0.99@full load	0.99@full load	0.99@full load
Reactive power adjust range	-0.8~+0.8	-0.8~+0.8	-0.8~+0.8
THDI	<3%	<3%	<3%
Peak power(VA)	2xPn/5s	2xPn/5s	2xPn/5s
THDv	<3%	<3%	<3%
Switch time(ms)	<20	<20	<20
Efficiency			
CEC Efficiency	97%	97%	97%
Max.Efficiency@PV to grid	97,50%	97,50%	97,50%
Max. Efficiency@ battery to grid	94,00%	94,00%	94,00%
MPPT Efficiency	96,40%	96,40%	96,40%
Protection			
Integrated disconnect	YES	DC switch	YES
Reverse polarity protection	YES	YES	YES
DC switch rating for each MPPT	YES	YES	YES
Output over voltage protection	YES	YES	YES
Output over current protection	YES	YES	YES
Ground fault monitoring	YES	YES	YES
Grid monitoring	YES	YES	YES
Pole sensitive leakage current monitoring	YES	YES	YES
AFCI	YES	YES	YES
RSD		YES	
General			
Dimensions (mm)(in)	625 mm/490mm/265mm (24.6 in/19.3 in/10.4 in)		670mm/490mm/265mm (26.4in/19.3in/10.4in)
Weight(Kg)	44kg		50kg
Degree of protection		NEMA 4X/IP65	
Cooling concept		FAN	
Topology		Transformerless	
Relative humidity		100%	
Altitude(m)		<2000	
Noise emission(dB)		<50	
Internal consumption(W)		<15	
Display		Touch color screen	
Communication interface		485/Wi-Fi/CAN	
Standard Warranty		10 years	

10 YEAR WARRANTY

Expandable to 15 or 20 years

SunBeat home energy monitoring

Eliminate electricity bill surprises by monitoring your electricity usage using real time energy information, detailed reports, and conveniently access your home energy information from your smartphone, tablet or computer.



Designed for reliability, safety and ease of information



Integrates grid and generator power with dual AC inputs



Single or three phase systems configurations (with factory design approval)



Supports DC coupled and AC coupled off grid and grid tie architecture