

PV 3000

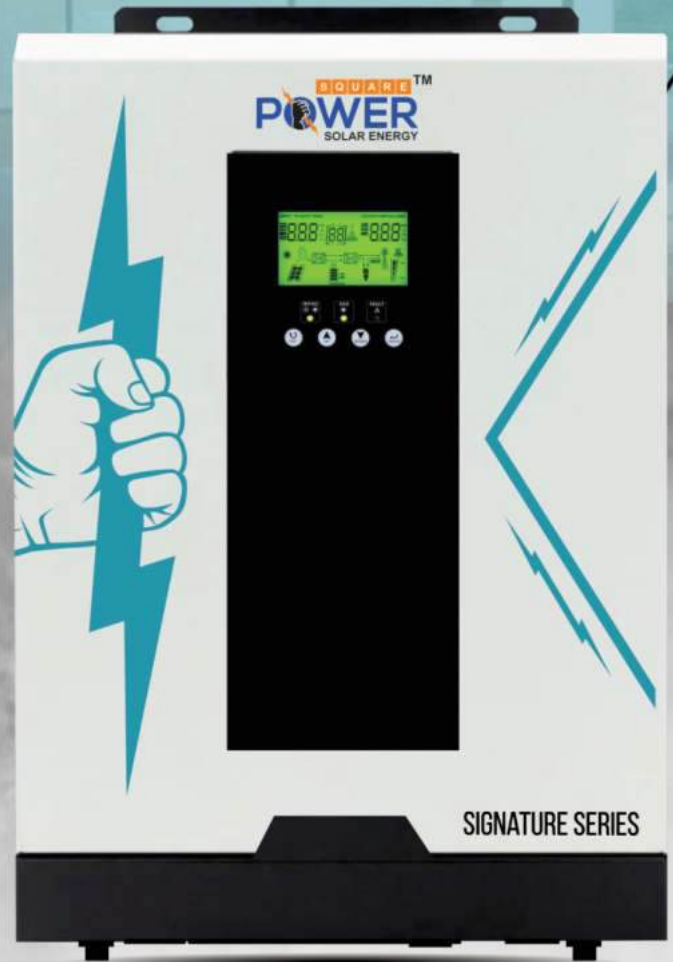
**PURE SINE WAVE
SOLAR INVERTER**



OFF-GRID INVERTER

Features

- Pure sine wave solar inverter
- MPPT power increase to 3KW
- Charging current increase to 80A
- Selectable input voltage range for home appliances and personal computers.
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Smart battery charge design for optimized battery performance
- Cold Start function
- Works without battery



App Control Option



10-20 MS Transfer Time



Anti Dust Filters



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SIGNATURE Series



Specification :

MODEL	Signature Series VM II PLUS 3KW
RATED POWER	3000VA/3000W
INPUT	
Voltage	230VAC
Selectable Voltage Range	170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)
Frequency Range	50 Hz/60 Hz (Auto sensing)
OUTPUT	
AC Voltage Regulation (Batt. Mode)	230VAC \pm 5%
Surge Power	6000VA
Efficiency (Peak)	93%
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)
Waveform	Pure sine wave
BATTERY	
Battery Voltage	24 VDC
Floating Charge Voltage	27 VDC
Overcharge Protection	32 VDC
SOLAR CHARGER & AC CHARGER	
Solar Charger type	MPPT
Maximum PV Array Open Circuit Voltage	450 VDC
Maximum PV Array Power	3000W
MPPT Range @ Operating Voltage	60-400 VDC
Maximum Solar Charge Current	80A
Maximum AC Charge Current	80A
Maximum Charge Current	80A
PHYSICAL	
Dimension, D x W x H (mm)	100 x 288 x 390
Net Weight (kgs)	7.5
Communication Interface	RS232
ENVIRONMENT	
Humidity	5% to 95% Relative Humidity (Non-condensing)
Operating Temperature	-10°C to 50°C
Storage Temperature	-15°C to 60°C

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HYBRID INVERTER

Features

- Dual output for smart load management
- Maximum PV input current 27A
- Wide PV input voltage range 60VDC~450VDC
- Customizable status LED ring with RGB lights
- Touchable button with large 4.3" colored LCD
- Built-in Wifi for mobile monitoring (Android/iOS App Available)
- Built-in anti-dust kit
- Data log event stored in the inverter
- Reserved communication port (RS485, CAN-BUS or RS232) for BMS
- Battery independent design
- Battery equalization extends lifecycle
- Enhanced charging power
- Supports USB On-the-Go function



App Control Option



RGB Lights



Dual AC Output



Anti Dust Filters



Feed into Grid



USB Option



Built In Wifi



Touchable Button Colored LCD



Communication Ports



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SIGNATURE Series



Specification :

MODEL	Signature Series VM IV 4KW TWIN
RATED POWER	4000VA/4000W
INPUT	
Voltage	230 VAC
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)
Frequency Range	50 Hz/60 Hz (Auto sensing)
OUTPUT	
AC Voltage Regulation (Batt. Mode)	230VAC \pm 10%
Surge Power	8000VA
Efficiency (Peak)	90% ~ 93%
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)
Waveform	Pure sine wave
BATTERY	
Battery Voltage	24 VDC
Floating Charge Voltage	27 VDC
Overcharge Protection	33 VDC
SOLAR CHARGER & AC CHARGER	
Solar Charger type	MPPT
Maximum PV Array Power	5000W
MPPT Range @ Operating Voltage	60 ~ 450 VDC
Maximum PV Array Open Circuit Voltage	500 VDC
Maximum PV Input Current	27A
Maximum Solar Charge Current	120A
Maximum AC Charge Current	100A
Maximum Charge Current	120A
PHYSICAL	
Dimension, D x W x H (mm)	119 x 313.6 x 457.5
Net Weight (kgs)	10
Communication Interface	USB/RS232/RS485/WiFi/Dry-contact
OPERATING ENVIRONMENT	
Humidity	5% to 95% Relative Humidity (Non-condensing)
Operating Temperature	-10°C to 50°C
Storage Temperature	-15°C to 60°C

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PV 6000

**PURE SINE WAVE
 SOLAR INVERTER**



HYBRID INVERTER

Features

- Dual output for smart load management
- Maximum PV input current 27A
- Wide PV input voltage range 60VDC~450VDC
- Customizable status LED ring with RGB lights
- Touchable button with large 4.3" colored LCD
- Built-in Wifi or mobile monitoring (APP is available)
- Enhanced charging power

- Supports USB On-the-Go function
- Data log event stored in the inverter.
- Reserved communication port (Rs485 , CAN-BUS or Rs232) for BMS
- Battery independent design
- Battery equalization extends lifecycle
- Built-in anti-dust kit











App Control Option **Anti Dust Filters** **RGB Lights** **Dual AC Output** **Feed into Grid** **USB Option** **Built In Wifi** **Communication Ports** **Touchable Button Colored LCD**



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SIGNATURE Series



Specification :

MODEL	Signature Series VM IV 6KW TWIN
RATED POWER	6000VA/6000W
INPUT	
Voltage	230 VAC
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)
Frequency Range	50 Hz/60 Hz (Auto sensing)
OUTPUT	
AC Voltage Regulation (Batt. Mode)	230VAC \pm 10%
Surge Power	12000VA
Efficiency (Peak)	90% ~ 93%
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)
Waveform	Pure sine wave
BATTERY	
Battery Voltage	48 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	63 VDC
SOLAR CHARGER & AC CHARGER	
Solar Charger type	MPPT
Maximum PV Array Power	6000W
MPP Range @ Operating Voltage	60 ~ 450 VDC
Maximum PV Array Open Circuit Voltage	500 VDC
Maximum PV Input Current	27A
Maximum Solar Charge Current	120A
Maximum AC Charge Current	100A
Maximum Charge Current	120A
PHYSICAL	
Dimension, D x W x H (mm)	119 x 313.6 x 457.5
Net Weight (kgs)	12
Communication Interface	USB/RS232/RS485/WiFi/Dry-contact
OPERATING ENVIRONMENT	
Humidity	5% to 95% Relative Humidity (Non-condensing)
Operating Temperature	-10°C to 50°C
Storage Temperature	-15°C to 60°C

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HYBRID INVERTER

Features

- Maximum PV input current 27A
- Dual outputs for smart load management
- Touchable button with 4.3" colored LCD
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Built-in Wi-Fi for mobile monitoring (App is available)
- Reserved communication port for BMS
- Parallel operation up to 9 units



App Control Option



Anti Dust Filters



RGB Lights



Communication Ports



Dual AC Output



Feed into Grid



Built In Wifi



Touchable Button Colored LCD



Parallel Operation upto 9 units



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SIGNATURE Series



Specification :

MODEL	Signature Series Infini V IV 6KW Twin
PHASE	1-phase in / 1-phase out
MAXIMUM PV INPUT POWER	7000W
RATED OUTPUT POWER	6000W
MAXIMUM CHARGING POWER	6000W
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27A
GRID OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)
Nominal Output Current	26A
Power Factor	> 0.99
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	96%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC
Maximum AC Input Current	40 A
PV INPUT (DC)	
Maximum DC Voltage	500 VDC
MPP Voltage Range	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27 A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Waveform	Pure sinewave
Efficiency (DC to AC)	93%
HYBRID OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27A
GRID OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)
Nominal Output Current	26A
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC
Maximum AC Input Current	40A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Efficiency (DC to AC)	93%
BATTERY & CHARGER	
Nominal DC Voltage	48 VDC
Maximum Solar Charging Current	120A
Maximum AC Charging Current	120A
Maximum Charging Current	120A
GENERAL	
PHYSICAL	
Dimension, D x W x H (mm)	140 x 295 x 468
Net Weight (kgs)	12
INTERFACE	
Parallel Function	Yes, 9 units
Communication Port	USB/RS232/RS485/Wifi/Dry-contact
ENVIRONMENT	
Humidity	0 ~ 90% RH (Non-condensing)
Operating Temperature	-10 to 50°C

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HYBRID INVERTER

Features

- Dual outputs for smart load management
- Two independent AC power sources connected and switched automatically
- Built-in current transformer sensor to meet self-consumption application
- Support external BTS (Battery Temperature Sensor) detection
- Built-in 2.8" colored LCD with slide operation
- Built-in Wi-Fi for mobile monitoring and OTA firmware upgrade
- Supports USB On-the-Go function
- Reserved communication port f
- Support optional GFCI, Rapid shutdown, AFCI detections
- Parallel operation with 6 units
- Built-in power status lighting indicators



App Option



RGB Lights



Anti Dust Filters



Dual AC Output



Built In Wifi



Feed into Grid



Communication Ports



USB Option



Parallel Operation upto 6 units



Dual input



Touchable Button 2.8 Colored LCD



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SIGNATURE Series



Specification :

MODEL	Signature Series Expert Ultra 8KW
RATED POWER	8000VA/8000W
PARALLEL CAPABILITY	YES, 6 units
INPUT	
Voltage	230 VAC
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)
Frequency Range	50 Hz/60 Hz (Auto sensing)
OUTPUT	
AC Voltage Regulation (Batt. Mode)	230VAC \pm 5%
Surge Power	16000VA
Efficiency (Peak)	93%
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)
Waveform	Pure sine wave
BATTERY	
Battery Voltage	48 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	63 VDC
SOLAR CHARGER & AC CHARGER	
Solar Charger Type	MPPT
Maximum PV Array Power	10000W (5000W x 2)
MPPT Range @ Operating Voltage	90 ~ 450 VDC
Maximum PV Array Open Circuit Voltage	500 VDC
Maximum PV Input Current	27A x 2 (MAX 40A)
Maximum Solar Charge Current	150A
Maximum AC Charge Current	120A
Maximum Charge Current	150A
PHYSICAL	
Dimension, D x W x H (mm)	145 x 438 x 553.6
Net Weight (kgs)	18.4
Communication Interface	USB/RS232/RS485/WiFi/Dry-contact/BTS Support optional GFCI, Rapid shutdown, AFCI detection
External Current Sensor Port	Yes, built-in current transformer sensor
OPERATING ENVIRONMENT	
Humidity	5% to 95% Relative Humidity(Non-condensing)
Operating Temperature	-10°C to 50°C
Storage Temperature	-15°C to 60°C
STANDARD	
Compliance Safety	CE

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HYBRID INVERTER

Features

- Dual outputs for smart load management
- Two independent AC power sources connected and switched automatically
- Built-in current transformer sensor to meet self-consumption application
- Support external BTS (Battery Temperature Sensor) detection
- Built-in 2.8" colored LCD with slide operation
- Built-in Wi-Fi for mobile monitoring and OTA firmware upgrade
- Supports USB On-the-Go function
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Support optional GFCI, Rapid shutdown, AFCI detections
- Parallel operation with 6 units
- Built-in power status lighting indicators



App Option



RGB Lights



Anti Dust Filters



Dual AC Output



Built In Wifi



Feed into Grid



Communication Ports



USB Option



Parallel Operation upto 6 units



Dual input



Touchable Button 2.8 Colored LCD



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SIGNATURE Series



Specification :

MODEL	Signature Series Aexpert Ultra 11KW
RATED POWER	11000VA/11000W
PARALLEL CAPABILITY	YES, 6 units
INPUT	
Voltage	230 VAC
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)
Frequency Range	50 Hz/60 Hz (Auto sensing)
OUTPUT	
AC Voltage Regulation (Batt. Mode)	230VAC \pm 5%
Surge Power	22000VA
Efficiency (Peak)	93%
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)
Waveform	Pure sine wave
BATTERY	
Battery Voltage	48 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	63 VDC
SOLAR CHARGER & AC CHARGER	
Solar Charger Type	MPPT
Maximum PV Array Power	12000W (6000W x 2)
MPPT Range @ Operating Voltage	90 ~ 450 VDC
Maximum PV Array Open Circuit Voltage	500 VDC
Maximum PV Input Current	27A x 2 (MAX 40A)
Maximum Solar Charge Current	150A
Maximum AC Charge Current	150A
Maximum Charge Current	150A
PHYSICAL	
Dimension, D x W x H (mm)	145 x 438 x 553.6
Net Weight (kgs)	18.4
Communication Interface	USB/RS232/RS485/WiFi/Dry-contact/BTS Support optional GFCI, Rapid shutdown, AFCI detection
External Current Sensor Port	Yes, built-in current transformer sensor
OPERATING ENVIRONMENT	
Humidity	5% to 95% Relative Humidity(Non-condensing)
Operating Temperature	-10°C to 50°C
Storage Temperature	-15°C to 60°C
STANDARD	
Compliance Safety	CE

روشن جدید پاکستان

Elite Edition

POWER PERFECTED,
WEATHER PROOFED!



IP65

5 YEARS WARRANTY

TERMS AND CONDITIONS APPLY*

FEATURES :



WATER RESISTANT



TOUCH SCREEN



WORKS WITH & WITHOUT BATTERY



MAX PV INPUT CURRENT 36A



WIFI APP MONITOR



120A MAX CHARGING CURRENT



DUST RESISTANT



BMS RESERVED PORT



MAX PV VOLTAGE 500VDC



PARALLEL UPTO 6 UNITS



DUAL OUTPUT





Elite Edition

MODEL	Apert WP 8KW TWIN
RATED POWER	8000VA/8000W
PARALLEL CAPABILITY	YES, 6 units
INPUT	
Voltage	230 VAC
Selectable Voltage Range	170-280 VAC (For Computers) 90-280 VAC (For Home Appliances)
Frequency Range	50 Hz/60 Hz (Auto sensing)
OUTPUT	
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%
Surge Power	16000VA
Efficiency (Peak)	93%
Transfer Time	10 ms (For Personal Computers), 20 ms (For Home Appliances)
Waveform	Pure sine wave
No Load Power Consumption	< 85W
BATTERY	
Battery Voltage	48 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	66 VDC
SOLAR CHARGER & AC CHARGER	
Solar Charger Type	MPPT
Maximum PV Array Power	8000W (4000W x 2)
MPPT Range @ Operating Voltage	90 ~ 450 VDC
Maximum PV Array Open Circuit Voltage	500 VDC
Maximum PV Input Current	18 A x 2
Maximum Solar Charge Current	150 A
Maximum AC Charge Current	120 A
Maximum Charge Current	150 A
PHYSICAL	
Dimension, D x W x H (mm)	210 x 435 x 665
Net Weight (kgs)	32
Communication Interface	USB/RS-232/Dry Contact/RS485/WIFI/BMS
OPERATING ENVIRONMENT	
Humidity	5% to 95% Relative Humidity (Non-condensing)
Operating Temperature	-10°C to 50°C
Storage Temperature	-15°C to 60°C
STANDARD	
Compliance Safety	CE





Product specifications are subject to change without further notice.

25.6V, 51.2V - 100Ah, 300Ah
 Wall Mount - Floor-Standing Lithium Battery

6000 Cycles
8000 Cycles



Main Features :

-  Built-in Wi-Fi
-  Safety Breaker
-  Tier-1 Grade-A Cells
-  Plug & Play
-  Charge Indicator
-  Compatible with Global Inverters

5-Year Warranty, 10+ Year Design Life

*Terms & Conditions Apply

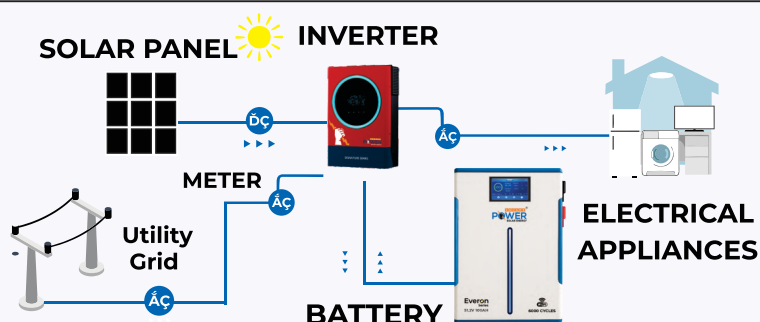
Ensure Lithium Battery Protection and Warranty with BMS Communication

MODELS	EVERON 25.6V-100AH	EVERON 51.2V-100AH	EVERON 51.2V-300AH
Battery Type	Lithium Battery		
Rated Voltage	25.6V	51.2V	51.2V
Normal Capacity (25°C, 0.2C) (Wh)	2560WH	5120WH	15360WH
Voltage Window (VDC)	22.4~29.2V	44.8~58.4V	44.8~58.4V
Rated Charge Current	100A	100A	150A
Max. Discharge Charge Current (A)	100A	100A	200A
Case Design	Power-Wall Design		
Cycle Life (+25C 0.2 80% DOD)	6000 Cycles		8000 Cycles
Cell Equalizer Current (A)	1~5A Max		
Terminal	M8		
Storage Temperature	0°C~30°C		
Storage Duration	3 months at 25°C		
Safety Standard	UN38.3, IEC62619, MSDS, CE		
IP Rating	IP20		
Scalable Parallel	1~15 Units in Parallel		
Charge / Discharge	1C Charge / 1C Discharge		0.5C Charge / 0.67 Discharge
Communication	RS485		CAN,RS485
Working Temperature	- 20°C ~ + 55°C		
PROTECTION	Over Charge Protection, Over Discharge Protection, Short Circuit Protection, Over Temperature Protection		
Humidity	0~95% (no condensation)		
Dimensions (L × W × H) (mm)	L520*W390*H178	L638*W410*H178	L837*W500*H270
Weight (NW kg)	27.4KG	46.5KG	116.9KG
Weight (GW kg)	31KG	51KG	134.4KG

Why Battery Storage Systems Are Essential?

Battery storage serves as the backbone of modern energy, enabling smooth integration of renewable power sources while strengthening grid reliability and stability.

Smart BMS ensures seamless communication with hybrid solar inverters across different brands.





SUNWODA ENERGY

Smart Power Voltix

Wall-mounted Version

LITHIUM BATTERY 51.2V-5.12KWH



Powering Life with Smarter Storage.

6 YEARS REPLACEMENT WARRANTY

OR 6000 CYCLES (WHICHEVER FIRST)



Scan to Watch How to Connect Your Battery to Wi-Fi



TIER 1 MANUFACTURER



BUILT-IN WIFI



TIER 1 LITHIUM TECHNOLOGY



1C DISCHARGE



ECO-FRIENDLY DESIGN



BRACKETS INCLUDED



COMPATIBLE WITH GLOBAL INVERTERS



WIRE INCLUDED



REAL-TIME APP MONITORING



PLUG & PLAY SAVE TIME



6000 CYCLE LIFE



Smart Power Voltix

Low-Cost, Wall-Mounted Version

Product Specifications

Model	Smart Power Voltix-5
Nominal energy	5KWH
Usable energy (100% DOD)	5KWH
Rated voltage	51.2V
Charge/discharge cut off voltage	44.8V~55.2V
Roundtrip efficiency	>98%
Rated charge / discharge current	50A/50A
Max. Charge / discharge current	100A/100A
Communication interface	CAN 2.0 / RS-485
Operating Temperature	Discharging: -4°F to 122°F (-20°C to 50°C), Charging: 32°F to 122°F (0°C to 50°C)
Dimensions (W*H*D, mm)	482*135*433 (Single Battery Pack)
Weight	45kg
Enclosure protection rating	IP20
Warranty	6-Years
Certifications	IEC62619/CE/UN38.3

*DC Usable Energy, Test conditions: 100% DOC, 0.2C charge & discharge at 25°C.

*Charge/discharge derating occurs when the operating temperature from -10°C to 5°C.



Modular design , wall mounted installation



Plug and Play , save time and effort, cost-effective



Long-lasting Performance with 6000 Cycle Life



Supports 100% DoD, Low-temperature Operation (-10°C)



Real-time data acquisition, real-time monitoring, support remote operation and upgrade.



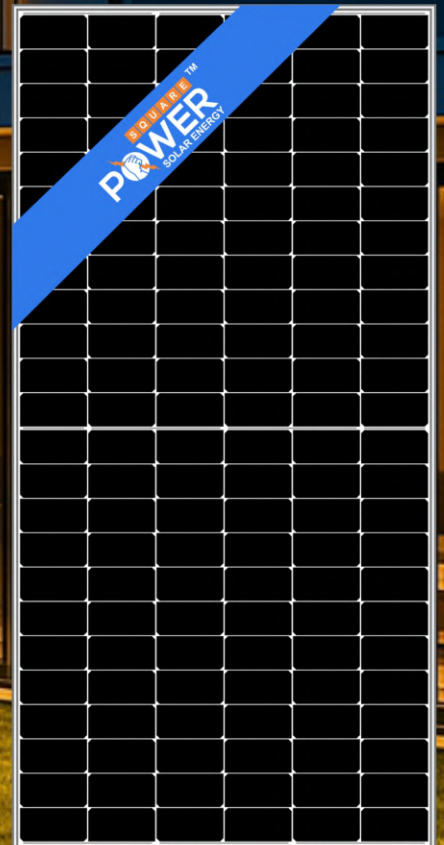
Hybrid Inverters Compatibility List with Smart Power Voltix Lithium Battery

Sr. No	Brand Name	Model Name	Inverter Type	Compatibility Status
1	Power Square	Signature series 6kw Twin	Hybrid	Yes
		Signature series 6kw Infini	Hybrid	Yes
		Signature series 8kw ultra	Hybrid	Yes
		Signature series 11kw ultra	Hybrid	Yes
		Elite Edition 8kw Ip65	Hybrid	Yes
2	Inverex	Nitrox 12kW	Hybrid	Yes
		Nitrox 8kW	Hybrid	Yes
		Nitrox 6kW	Hybrid	Yes
		Inverex Veyron II 6000W-48V	Hybrid	Yes
3	Maxpower	Suntronic PV6000 Pro	Hybrid	Yes
		Suntronic PV 7000 Pro	Hybrid	Yes
		Suntronic PV 10000 Ultra	Hybrid	Yes
		Suntronic PV 12000 Ultra	Hybrid	Yes
		Sunbridge 8000 DUO Hybrid Inverter	Hybrid	Yes
4	Crown	Elego 6KW	Hybrid	Yes
		Elego 6KW IP65	Hybrid	Yes
		Elego 8KW IP65	Hybrid	Yes
		Nova Series	Hybrid	Yes
5	Tesla	Xavier 6KW	Hybrid	Yes
		Infinity V III 6kW 48V	Hybrid	Yes
6	Solis	S6 Hybrid 6kW LV	Hybrid	Yes
		S6 Hybrid 8kW LV	Hybrid	Yes
		S6 Hybrid 12kW LV	Hybrid	Yes
		S6 Hybrid 14kW LV	Hybrid	Yes
		S6 Hybrid 16kW LV	Hybrid	Yes
7	Knox	Argon VM II 6000	Hybrid	Yes
		Xenon Series PV 9000 - PV 22500	Hybrid	Yes
		Krypton Series PV 7200 - PV 13000	Hybrid	Yes
8	SolarMax	Orion Series	Hybrid	Yes
		Orion Ultra 11kW	Hybrid	Yes
		Orion Ultra 8kW	Hybrid	Yes
		Orion Ultra 6kW	Hybrid	Yes
		Falcon Ultra 6kW Series	Hybrid	Yes
9	ION	MD Ultra 6kW	Hybrid	Yes
		MD Ultra 8kW	Hybrid	Yes
		MD IV 5.6kW	Hybrid	Yes
10	DJDC (Dongjin)	DONGJIN MaxPro 11kW-48V	Hybrid	Yes
		DONGJIN PV6000	Hybrid	Yes
11	Luxpower	LXP3K 3kW Hybrid Inverter	Hybrid	Yes
		LXP3K 4kW Hybrid Inverter	Hybrid	Yes
		LXP3K 5kW Hybrid Inverter	Hybrid	Yes
		LXP3K 6kW Hybrid Inverter	Hybrid	Yes
		SNA 3000/4000/5000/6000	Hybrid	Yes
12	Megarevo	R3K/3K6/4K/4K6/5K/6KL1	Hybrid	Yes
13	SAJ	H1- (3 ~ 6)K-S2	Hybrid	Yes
14	Sofar	H1- (3 ~ 6)K-S2-15	Hybrid	Yes
15	SMA	HYD 3000-6000-EP	Hybrid	Yes
16	DEYE	SI 4.4-M ;SI 6.0-H ;SI 8.0-H	Hybrid	Yes
		SUN-3.6/5/6K-SG03LP1-EU SUN-5/6/8/10/12 K-SG04LP3-EU	Hybrid	Yes
17	SACOLAR	M5000H-48BP/MHP series	Hybrid	Yes
		MHP 3000 series MLP series,SP series	Hybrid	Yes
18	Solplanet	ASW3000-6000H-S2-48V	Hybrid	Yes
19	Senergy	SE 4K6/5K/6K/6K/120	Hybrid	Yes
		SE 8/10K/120	Hybrid	Yes
		SE 4.6/5/6K/6K/120	Hybrid	Yes
20	Longlife	Phantom II 6000watt 6000pv	Hybrid	Yes
		Mars 6000watt 7000pv	Hybrid	Yes
		Ultra smart 8000watt 10000pv	Hybrid	Yes
		Ultra smart 11000watt 12000pv	Hybrid	Yes
		Alexa 6kW IP65 Alexa 8kW IP65	Hybrid	Yes
21	Afore	AF1.5/2.2.5/3.6K-SL-1	Hybrid	Yes
		AF3/3.6/4/4.6/5/5.6K-SL	Hybrid	Yes
22	Hoymiles	HAS-LV Series	Hybrid	Yes
		HYS-LV Series	Hybrid	Yes
23	INVT	XD3 K6/4K/4K6/5 K/6KTL	Hybrid	Yes
24	Victron	MultiPlus-II 48 Series	Hybrid	Yes
		Quattro 48 Series	Hybrid	Yes
25	TBB	RiiO Sun II Series	Hybrid	Yes
		Tyrann/Kinergie pro II Series Matrix II series	Hybrid	Yes
26	SRNE	HFP4850S80-H/ASP48100S200-H	Hybrid	Yes
		HESP4860S100-H	Hybrid	Yes
		HESP48100S200-H	Hybrid	Yes
		HESP48120S200-H	Hybrid	Yes
27	OPTI	SP6000 - 11000 Handy Ultra	Hybrid	Yes
		SP4000 - 6000 Handy Plus	Hybrid	Yes



585W

(Bifacial) High-Efficiency Solar Panel



TOPCon cells double-sided rate up to 85% and more back power generation by 5-25%



Double-glass Technology, higher encapsulation blocking and mechanical strength



Higher performance in anti hidden cracking, acid and alkali, salt spray, water vapor, UV, PID



TOPCon cells, lower attenuation, better temperature coefficient & dim light performance



LECO laser assisted sintering technology, reduces contact resistance and improves efficiency by 0.2% -0.5%



PRODUCT WARRANTY

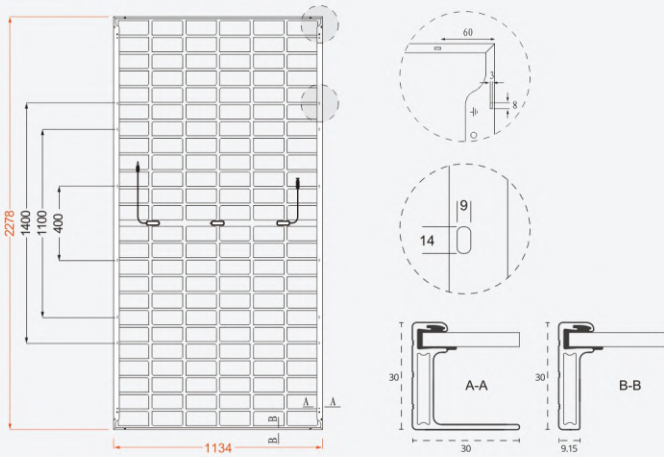


LIFE WARRANTY

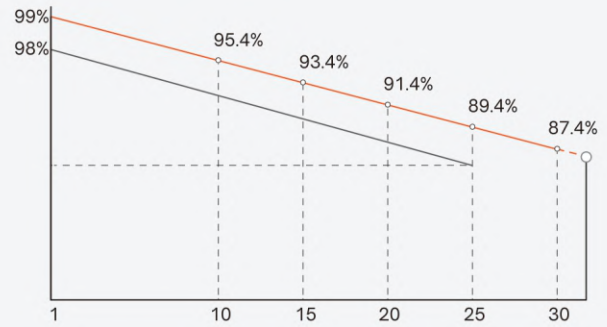


Power Square -72x16/DG / 585W

Design



30-Year Linear Power Output Warranty



— Solar linear power output guarantee
 - Standard linear power output guarantee

Mechanical Specification

No. of Cells	144 (6×24)
Weight	30.8kg
Cells Type	N-type 182×91mm
Dimension (L×W×T)	2278×1134×30mm
Packing	36pcs/Pallet, 720pcs/40HQ

Cable(Including connector)	4.0mm ² , 300/200mm in length, length can be customized
Glass	2.0mm High Transmission, Antireflection Coating
Junction Box	IP68, 3 Bypass Diodes
Connector	MC4 Compatible

Electrical Characteristics

Module Type	Power Square -72x16/DG							
	STC		NOCT		STC		NOCT	
Test conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	575	432	580	436	585	440	590	444
Open-circuit Voltage (Voc/V)	51.2	48.6	51.4	48.8	51.6	49.0	51.8	49.2
Maximum Power Voltage (Vmp/V)	43.4	41.2	43.6	41.4	43.8	41.6	44.0	41.8
Short-circuit Current (Isc/A)	14.08	11.37	14.14	11.42	14.20	11.46	14.26	11.51
Maximum Power Current (Imp/A)	13.25	10.49	13.30	10.53	13.36	10.57	13.41	10.61
Module Efficiency (STC)	22.26%		22.45%		22.65%		22.84%	
Refer Bifacial Factor	80±5%							

STC-Standard Test Environment: Irradiance 1000W/m², Cell temperature 25°C, Spectrum AM1.5
 NOCT-Standard Test Environment: Irradiance 800W/m², Ambient temperature 20°C, Spectrum AM1.5, Wind speed 1m/s

Double-Sided Power Generation Parameters (Rear gain)

Gain	Parameter	603.75	609	614.25	619.5
5%	Maximum Power (Pmax)	603.75	609	614.25	619.5
	Module Efficiency (%)	23.37	23.57	23.78	23.98
15%	Maximum Power (Pmax)	661	667	673	679
	Module Efficiency (%)	25.60	25.82	26.04	26.27
25%	Maximum Power (Pmax)	719	725	731	738
	Module Efficiency (%)	27.82	28.07	28.31	28.55

Operating Parameters

Maximum System Voltage	1500V DC
Operating Temperature	-40 ~ +85°C
Maximum Series Fuse Rating	30A
Nominal Operating Cell Temperature	45°C±2°C
Application Level	Class A

Temperature Coefficient

Temperature Coefficient of Isc (ΔIsc)	0.046%/°C
Temperature Coefficient of Voc (ΔVoc)	-0.25%/°C
Temperature Coefficient of Pmax (ΔPmp)	-0.29%/°C
Snow load, frontside / Wind load, backside	5400Pa/2400Pa



Comprehensive Products & System Certificates

IEC 61215 / IEC 61730 / CE / INMETRO
 ISO 45001
 2018/International standards for occupational health & safety
 ISO 14001
 2015/Standards for environmental management system
 ISO 9001
 2015/Quality management system