

كتالوج محولات وشواحن الطاقة الشمسية Inverters and Solar Chargers Catalog

Shahen
for Renewable Energy

2026



شاهين الأولى للطاقة المتجددة
SHAHEN ALAWLA FOR RENEWABLE ENERGY



High Efficiency



Pure Sine
Wave



Hybrid



MPPT Charge
Controller



BMS
Communication



WiFi
Optional



Storage
Temperature 60°C



Welcome to
Shahen

Product catalog



SHAHEN Pro 2kw

Professional performance for independent power

- Accept extra high PV input current and power.
- Optional Dual output.
- Output power factor PF=1
- lithium battery activation start function with ac and solar mode
- Parallel function to expansion power
- Higher solar charging efficiency and battery protection
- Pure sine wave output, adaptable to different loads
- 500V high PV input
- Optional WIFI function
- Working with or without battery
- 2 years warranty



High Efficiency



Pure Sine
Wave



Hybrid



MPPT Charge
Controller



BMS
Communication



WIFI
Optional



Storage
Temperature 60°C

MODEL		Shahen Pro 2kw
Input	Phase	L+N+PE
	Nominal Voltage	208/220/230/240VAC
	Voltage Range	154-264VAC±3V (Normal Mode) 185-264VAC±3V (UPS Mode)
	Frequency Range	50Hz/60Hz(Adaptive)
Output	Rated Power	2000W
	Output Voltage(AC)	208/220/230/240VAC±5%
	On / Off grid	Off grid
	Output Frequency	50/60Hz±0.1%
	Dual Output	No
	Waveform	Pure sine wave
	Transfer Time(Optional)	10ms for computer , 20ms for home appliances
	Peak power	4000VA
	Overload	Battery Mode: 11s@105%~150% Load; 2s@150%~200% Load; 400ms@>200% Load.
	Peak efficiency (battery mode)	>94%
Grid feed	Output Voltage(AC)	/
	Grid voltage	/
	Grid frequency	/
	Output Current	/
	Power factor	/
	Transfer efficiency(DC/AC)	/
Battery	Rated voltage	12Vdc
	Constant voltage charging voltage (Optional)	14.1Vdc
	Floating charge voltage (Optional)	13.5Vdc
charger	PV charging method	MPPT
	PV Input current	18A
	PV max input power	2000W
	MPPT tracking range	40~400Vdc
	Max PV input voltage	400Vdc
	Max PV charging current	100A
	Max AC charging current	60A
	Max charging current	100A
Display	LCD display	Operating mode/load/input/output, etc.
Communication port	RS232	5PIN/Pitch2.0mm, baud rate 2400
	Expansion & configuration port	2×5PIN/Pitch2.54mm, lithium battery BMS communication card, WIFI card, dry contact card, etc.
	BMS protocol	Pylon tech, Pace, Voltronic, Growatt, Deye, Leoch, Sofar, Goodwe, etc.
	Parallel interface	No
Environmental parameters	Operating environment temperature	'-10~55C
	Operating environment humidity	20%~95% (Non condensing)
	Storage temperature	-15~60C
	Altitude	'The altitude should not exceed 1000m, derating above 1000m, up to 4000m, refer to IEC62040
	noise	≤50db



SHAHEN Pro 4kw

Professional performance for independent power

- Accept extra high PV input current and power.
- Optional Dual output.
- Output power factor PF=1
- lithium battery activation start function with ac and solar mode
- Parallel function to expansion power
- Higher solar charging efficiency and battery protection
- Pure sine wave output, adaptable to different loads
- 500V high PV input
- Optional WIFI function
- Working with or without battery
- 2 years warranty



High Efficiency



Pure Sine
Wave



Hybrid



MPPT Charge
Controller



BMS
Communication



WIFI
Optional



Storage
Temperature 60°C

MODEL	Shahen Pro 4kw	
Input	Phase	L+N+PE
	Nominal Voltage	208/220/230/240VAC
	Voltage Range	154-264VAC±3V (Normal Mode) 185-264VAC±3V (UPS Mode)
	Frequency Range	50Hz/60Hz(Adaptive)
Output	Rated Power	4000W
	Output Voltage(AC)	208/220/230/240VAC±5%
	On / Off grid	YES
	Output Frequency	50/60Hz±0.1%
	Dual Output	YES
	Waveform	Pure sine wave
	Transfer Time(Optional)	10ms for computer , 20ms for home appliances
	Peak power	8000VA
	Overload	Battery Mode: 11s@105%~150% Load; 2s@150%~200% Load; 400ms@>200% Load.
	Peak efficiency (battery mode)	>94%
Grid feed	Output Voltage(AC)	220/230/240VAC
	Grid voltage	170-265VAC
	Grid frequency	49-51±1Hz/59-61±1Hz
	Output Current	17.4A
	Power factor	>0.99
	Transfer efficiency(DC/AC)	98%
Battery	Rated voltage	24Vdc
	Constant voltage charging voltage (Optional)	28.2Vdc
	Floating charge voltage (Optional)	27Vdc
charger	PV charging method	MPPT
	PV Input current	27A
	PV max input power	5000W
	MPPT tracking range	60~500Vdc
	Max PV input voltage	500Vdc
	Max PV charging current	120A
	Max AC charging current	100A
	Max charging current	120A
Display	LCD display	Operating mode/load/input/output, etc.
Communication port	RS232	5PIN/Pitch2.0mm, baud rate 2400
	Expansion & configuration port	2×5PIN/Pitch2.54mm, lithium battery BMS communication card, WIFI card, dry contact card, etc.
	BMS protocol	Pylon tech, Pace, Voltronic, Growatt, Deye, Leoch, Sofar, Goodwe, etc.
	Parallel interface	No
Environmental parameters	Operating environment temperature	'-10~55C
	Operating environment humidity	20%~95% (Non condensing)
	Storage temperature	-15~60C
	Altitude	*The altitude should not exceed 1000m, derating above 1000m, up to 4000m, refer to IEC62040
	noise	≤50db



SHAHEN Pro 5kw

Professional performance for independent power

- Accept extra high PV input current and power.
- Optional Dual output.
- Output power factor PF=1
- lithium battery activation start function with ac and solar mode
- Parallel function to expansion power
- Higher solar charging efficiency and battery protection
- Pure sine wave output, adaptable to different loads
- 500V high PV input
- Optional WIFI function
- Working with or without battery
- 2 years warranty



High Efficiency



Pure Sine Wave



Hybrid



MPPT Charge Controller



BMS Communication



WIFI Optional



Storage Temperature 60°C

MODEL	Shahen pro 5kw
RATED POWER	5000VA/5000W
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	10000VA
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 Open Circuit Voltage	500 VDC
Maximum PV Array Power	5000W
Maximum PV Input Power	18A
MPP Range @ Operating Voltage	120 ~ 450VDC
Maximum Solar Charge Current	100A
Maximum AC Charge Current	100A
Maximum Charge Current	100A
PHYSICAL	
Dimension, D x W x H (mm)	120 x 300 x 440
Net Weight (kgs)	10
Communication Interface	RS232 / RS485, optional WiFi
ENVIRONMENT	
Humidity	5% to 95% Relative Humidity (Non-condensing)
Operating Temperature	-10°C to 50°C
Storage Temperature	-15°C to 60°C



SHAHEN Pro 6.2kw

Professional performance for independent power

- Accept extra high PV input current and power.
- Optional Dual output.
- Output power factor PF=1
- lithium battery activation start function with ac and solar mode
- Parallel function to expansion power
- Higher solar charging efficiency and battery protection
- Pure sine wave output, adaptable to different loads
- 500V high PV input
- Optional WIFI function
- Working with or without battery
- 2 years warranty



High Efficiency



Pure Sine Wave



Hybrid



MPPT Charge Controller



BMS Communication



WIFI Optional



Storage Temperature 60°C

MODEL		Shahen Pro 6.2kw
Input	Phase	L+N+PE
	Nominal Voltage	208/220/230/240VAC
	Voltage Range	154-264VAC±3V (Normal Mode) 185-264VAC±3V (UPS Mode)
	Frequency Range	50Hz/60Hz(Adaptive)
Output	Rated Power	6200W
	Output Voltage(AC)	208/220/230/240VAC±5%
	On / Off grid	YES
	Output Frequency	50/60Hz±0.1%
	Dual Output	YES
	Waveform	Pure sine wave
	Transfer Time(Optional)	10ms for computer , 20ms for home appliances
	Peak power	12400VA
	Overload	Battery Mode: 11s@105%~150% Load; 2s@150%~200% Load; 400ms@>200% Load.
	Peak efficiency (battery mode)	>94%
Grid feed	Output Voltage(AC)	220/230/240VAC
	Grid voltage	170-265VAC
	Grid frequency	49-51±1Hz/59-61±1Hz
	Output Current	26.9A
	Power factor	>0.99
	Transfer efficiency(DC/AC)	98%
Battery	Rated voltage	48Vdc
	Constant voltage charging voltage (Optional)	56.4Vdc
	Floating charge voltage (Optional)	54Vdc
charger	PV charging method	MPPT
	PV Input current	27A
	PV max input power	8500W
	MPPT tracking range	60~500Vdc
	Max PV input voltage	500Vdc
	Max PV charging current	120A
	Max AC charging current	100A
	Max charging current	120A
Display	LCD display	Operating mode/load/input/output, etc.
Communication port	RS232	5PIN/Pitch2.0mm, baud rate 2400
	Expansion & configuration port	2×5PIN/Pitch2.54mm, lithium battery BMS communication card, WIFI card, dry contact card, etc.
	BMS protocol	Pylon tech, Pace, Voltronic, Growatt, Deye, Leoch, Sofar, Goodwe, etc.
	Parallel interface	YES
Environmental parameters	Operating environment temperature	'-10~55C
	Operating environment humidity	20%~95% (Non condensing)
	Storage temperature	-15~60C
	Altitude	*The altitude should not exceed 1000m, derating above 1000m, up to 4000m, refer to IEC62040
	noise	≤50db



SHAHEN Pro 11kw

Professional performance for independent power

- Accept extra high PV input current and power.
- Optional Dual output.
- Output power factor PF=1
- lithium battery activation start function with ac and solar mode
- Parallel function to expansion power
- Higher solar charging efficiency and battery protection
- Pure sine wave output, adaptable to different loads
- 500V high PV input
- Optional WIFI function
- Working with or without battery
- 2 years warranty



High Efficiency



Pure Sine Wave



Hybrid



MPPT Charge Controller



BMS Communication



WIFI Optional



Storage Temperature 60°C

MODEL		Shahen Pro 11kw
Input	Phase	L+N+PE
	Nominal Voltage	208/220/230/240VAC
	Voltage Range	154-264VAC±3V (Normal Mode) 185-264VAC±3V (UPS Mode)
	Frequency Range	50Hz/60Hz(Adaptive)
Output	Rated Power	11000W
	Output Voltage(AC)	208/220/230/240VAC±5%
	On / Off grid	YES
	Output Frequency	50/60Hz±0.1%
	Dual Output	YES
	Waveform	Pure sine wave
	Transfer Time(Optional)	10ms for computer , 20ms for home appliances
	Peak power	22000VA
	Overload	Battery Mode: 11s@105%~150% Load; 2s@150%~200% Load; 400ms@>200% Load.
	Peak efficiency (battery mode)	>94%
Grid feed	Output Voltage(AC)	220/230/240VAC
	Grid voltage	170-265VAC
	Grid frequency	49-51±1Hz/59-61±1Hz
	Output Current	47.8A
	Power factor	>0.99
	Transfer efficiency(DC/AC)	98%
Battery	Rated voltage	48Vdc
	Constant voltage charging voltage (Optional)	56.4Vdc
	Floating charge voltage (Optional)	54Vdc
charger	PV charging method	MPPT
	PV Input current	2X27A
	PV max input power	2 X 7500W
	MPPT tracking range	90~500Vdc
	Max PV input voltage	500Vdc
	Max PV charging current	150A
	Max AC charging current	150A
	Max charging current	150A
Display	LCD display	Operating mode/load/input/output, etc.
Communication port	RS232	5PIN/Pitch2.0mm, baud rate 2400
	Expansion & configuration port	2×5PIN/Pitch2.54mm, lithium battery BMS communication card, WIFI card, dry contact card, etc.
	BMS protocol	Pylon tech, Pace, Voltronic, Growatt, Deye, Leoch, Sofar, Goodwe, etc.
	Parallel interface	YES
Environmental parameters	Operating environment temperature	'-10~55C
	Operating environment humidity	20%~95% (Non condensing)
	Storage temperature	-15~60C
	Altitude	'The altitude should not exceed 1000m, derating above 1000m, up to 4000m, refer to IEC62040
	noise	≤50db



SHAHEN 11kW MPPT

Professional performance for independent power

- Accept extra high PV input current and power.
- Optional Dual output.
- Output power factor PF=1
- lithium battery activation start function with ac and solar mode
- Parallel function to expansion power
- Higher solar charging efficiency and battery protection
- Pure sine wave output, adaptable to different loads
- 500V high PV input
- Optional WIFI function
- Working with or without battery
- 2 years warranty



High Efficiency



Pure Sine Wave



Hybrid



MPPT Charge Controller



BMS Communication



WIFI Optional



Storage Temperature 60°C

MODEL	Shahen 11K MPPT
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
Optional DC Voltage	N/A
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	13000W (6500W 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)	147.4 x 432.5 x 553.6
Net Weight (kgs)	18.4
Communication Interface	USB/RS232/RS485/Dry-contact/WIFI
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





شاهين الأولى للطاقة المتجددة
SHAHEN ALAWLA FOR RENEWABLE ENERGY

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