

Catalog

كتالوج محولات المضخات الشمسية

Solar Pump Inverters Catalog

Shahen
for Renewable Energy

2026



شاهين الأولى للطاقة المتجددة
SHAHEN ALAWLA FOR RENEWABLE ENERGY



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SHAHEN ALAWLA FOR RENEWABLE ENERGY

Welcome to
Shahen

Product catalog



SHAHEN GS-S Series

Applications

- Agricultural irrigation and drip systems
- Deep-well and submersible pump systems
- Livestock and farm water supply
- Desert and arid zone water pumping
- Off-grid rural and remote communities
- Municipal water distribution support
- Solar-powered drainage and flood control



Models and Specification

Models	Rated input current (A)	Rated output current (A)	DC input range (VDC)	Output voltage (VAC)	Applicable for pumps (kW)	Recommended VOC (VDC)
SHAHEN-S-2D2G-1-PV	23	9.6	150 to 450	220 ~ 240	2.2kW	360 ~ 400
SHAHEN-S-7D5G-4-PV	21.9	17	250 to 900	380 ~ 440	7.5kW	650 ~ 700
SHAHEN-011G-4-PV	32.2	25	250 to 900	380 ~ 440	11kW	650 ~ 700
SHAHEN-018G-4-PV	47	37	250 to 900	380 ~ 440	18.5kW	650 ~ 700

Physical Dimensions

	SHAHEN-S-2D2G-1-PV	SHAHEN-S-7D5G-4-PV	SHAHEN-011G-4-PV	SHAHEN-018G-4-PV
Width	105 mm	125 mm	125 mm	207 mm
Height	205 mm	240 mm	240 mm	298 mm
Depth	165 mm	170 mm	170 mm	160 mm
Mounting hole W1	90 mm	110 mm	110 mm	145 mm
Mounting hole H1	190 mm	225 mm	225 mm	280 mm
Mounting screw	Ø4 mm	Ø5 mm	Ø5 mm	Ø5 mm

Protections

- **Dry Run Protection:** Prevents the pump from operating when the well is dry (sensor-based).
- **Overvoltage & Lightning Protection:** Safeguards the system against sudden voltage spikes and lightning strikes.
- **Short Circuit & Overload Protection:** Ensures maximum safety against electrical faults and excessive loads.
- **Over-temperature Management:** Advanced active protection system against internal inverter overheating.

Operational Features

- **Multipurpose Applications:** Versatile solutions for various solar pumping needs.
- **Soft Start/Stop Function:** Eliminates water hammer to protect pipes and mechanical components.
- **Dynamic MPPT Technology:** Ensures maximum energy yield from solar panels with up to 99% efficiency.
- **Dual Mode Input (AC/DC):** Seamless switching between solar panels and grid/generator power.
- **Remote Monitoring Support:** Compatible with GPRS for remote well monitoring and control via mobile.
- **Extreme Temperature Endurance:** Operates reliably in harsh environments with ambient temperatures up to 50°C / 60°C.



SHAHEN GS-M Series

Applications

- Agricultural irrigation and drip systems
- Deep-well and submersible pump systems
- Livestock and farm water supply
- Desert and arid zone water pumping
- Off-grid rural and remote communities
- Municipal water distribution support
- Solar-powered drainage and flood control



Models and Specification

Models	Rated input current (A)	Rated output current (A)	DC input range (VDC)	Output voltage (VAC)	Applicable for pumps (kW)	Recommended VOC (VDC)
SHAHEN-037G-4-PV	80	75	250 to 900	380 ~ 440	37kW	650 ~ 700

Physical Dimensions

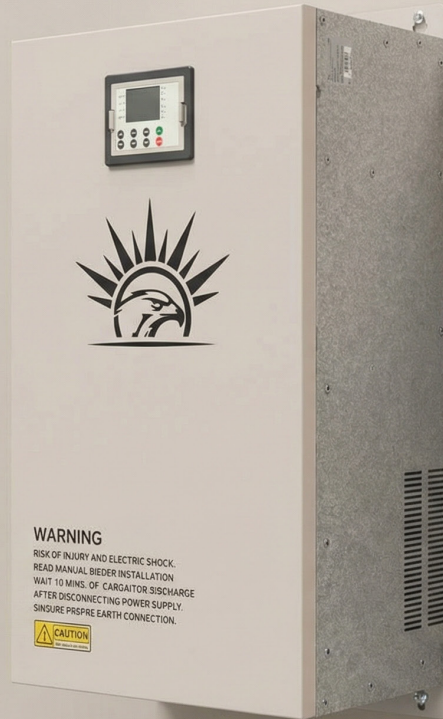
SHAHEN-037G-4-PV	
Width	255 mm
Height	420 mm
Depth	210 mm
Mounting hole W1	195 mm
Mounting hole H1	405 mm
Mounting screw	Ø5 mm

Protections

- **Dry Run Protection:** Prevents the pump from operating when the well is dry (sensor-based).
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- **Short Circuit & Overload Protection:** Ensures maximum safety against electrical faults and excessive loads.
- **Over-temperature Management:** Advanced active protection system against internal inverter overheating.

Operational Features

- **Multipurpose Applications:** Versatile solutions for various solar pumping needs.
- **Soft Start/Stop Function:** Eliminates water hammer to protect pipes and mechanical components.
- **Dynamic MPPT Technology:** Ensures maximum energy yield from solar panels with up to 99% efficiency.
- **Dual Mode Input (AC/DC):** Seamless switching between solar panels and grid/generator power.
- **Remote Monitoring Support:** Compatible with GPRS for remote well monitoring and control via mobile.
- **Extreme Temperature Endurance:** Operates reliably in harsh environments with ambient temperatures up to 50°C / 60°C.



SHAHEN GS-H Series

Applications

- Agricultural irrigation and drip systems
- Deep-well and submersible pump systems
- Livestock and farm water supply
- Desert and arid zone water pumping
- Off-grid rural and remote communities
- Municipal water distribution support
- Solar-powered drainage and flood control



Models and Specification

Models	Rated input current (A)	Rated output current (A)	DC input range (VDC)	Output voltage (VAC)	Applicable for pumps (kW)	Recommended VOC (VDC)
SHAHEN-075G-4-PV	139	150	250 to 900	380 ~ 440	75kW	650 ~ 700
SHAHEN-110G-4-PV	196	210	250 to 900	380 ~ 440	110kW	650 ~ 700
SHAHEN-160G-4-PV	287	300	250 to 900	380 ~ 440	160kW	650 ~ 700

Physical Dimensions

	SHAHEN-075G-4-PV	SHAHEN-110G-4-PV	SHAHEN-160G-4-PV
Width	263 mm	320 mm	380 mm
Height	610 mm	620 mm	800 mm
Depth	280 mm	300 mm	315 mm
Mounting hole W1	200 mm	260 mm	260 mm
Mounting hole H1	590 mm	600 mm	780 mm
Mounting screw	Ø6 mm	Ø8 mm	Ø8 mm

Protections

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- **Short Circuit & Overload Protection:** Ensures maximum safety against electrical faults and excessive loads.
- **Over-temperature Management:** Advanced active protection system against internal inverter overheating.

Operational Features

- **Multipurpose Applications:** Versatile solutions for various solar pumping needs.
- **Soft Start/Stop Function:** Eliminates water hammer to protect pipes and mechanical components.
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