

SLVK Pump Controller



Typical Applications

- Agricultural Irrigation: Efficiently powers irrigation systems using submersible or surface pumps.
- Swimming Pools: Operates swimming pool pumps to maintain water circulation and filtration.
- Water Supply Systems: Provides reliable water supply for residential or commercial buildings.
- Rural and Remote Areas: Supplies water where grid electricity is unavailable by using solar energy.
- Greenhouse Operations: Powers pumps for irrigation and water management in greenhouse environments.
- Emergency Water Supply: Functions as a backup for emergency water supply systems, switching between solar and grid/diesel power.
- Outdoor Installations: Suitable for outdoor water pumping installations with optional high protection grade control boxes.
- Remote Monitoring: Allows remote system status monitoring and management through a mobile app or web pages.
- Cost-Effective Solutions: Reduces system costs and complexity with optional boost modules for low power models.
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Operating Conditions

- Fully automatic operation, the inverter drives the pump to work from sunrise to sunset, without manual operation after installation
- Full protections including overvoltage protection, overcurrent protection and overheat automatic frequency reduction protection to extend product life effectively
- Full motor protections, optional water level switch to prevent overflow and dry running;

Technical Data

Power Range 0.75 - 110kW customized for higher power	Advanced Function Support remote monitoring	Optional Function Backup power supply Boost Module
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- Compatible with submersible pumps, surface pumps, swimming pool pumps and other pumps using three-phase/single-phase asynchronous motors
- Advanced MPPT algorithm, fast response, good stability and maximum 99% MPPT efficiency
- Maximum 97% conversion efficiency
- Power levels range from 0.75kW to 110kW and customized services for higher power levels;

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Model	Power	HP	Rated AC Input Current (A)	Rated AC Output Current (A)	Dimension		
	kW				Length	Width	Height
SLVK 0.75 S	0.75	1	7.2	4.5	238	180	216
SLVK 1.5 S	1.5	2	14	7	238	180	216
SLVK 2.2 S	2.2	3	23	10	238	180	216
SLVK 4 S	4	5	20	16	365	245	290
SLVK 0.75 H	0.75	1	3.4	2.5	238	180	216
SLVK 2.2 H	2.2	3	5.8	5.3	238	180	216
SLVK 4 H	4	5	12	9.5	310	220	260
SLVK 5.5 H	5.5	7.5	17.5	14	310	220	260
SLVK 7.5 H	7.5	10	22.5	17.5	365	245	290
SLVK 11 H	11	15	30	25	365	245	290
SLVK 15 H	15	20	39	32	490	300	300
SLVK 18 H	18	24	45	37	490	300	300
SLVK 22 H	22	30	54	45	490	300	300
SLVK 30 H	30	40	68	60	545	328	338
SLVK 37 H	37	50	84	75	545	328	338
SLVK 45 H	45	60	98	92	695	393	462
SLVK 55 H	55	75	123	115	695	393	462
SLVK 75 H	75	100	157	150	760	425	528
SLVK 90 H	90	120	188	180	760	425	528
SLVK 110 H	110	150	221	215	760	425	528

- Optional boost module for low power models ($\leq 2.2\text{kW}$) to achieve normal operation under minimum 150V input so as to solve the difficulty of solar modules configuration for low power models and reduce the overall system cost
- Optional high protection grade control box for 37kW and below models to satisfy the requirement of outdoor installation
- Optional power supply automatic switching function, switching to solar power or grid/diesel power supply automatically according to solar radiation conditions, which satisfies all-weather 24hours unattended water supply demand
- Optional DM-BR Data Monitor, remotely monitoring system operation status with mobile APP or web pages at anytime and anywhere;

Model	SLVK S	SLVK H
Power Range	0.75-5.5 kW	0.75-110 kW customized for higher power
Adapting Pump Motor	3PH 220-240V 50Hz 0.37-4 kW	3PH 380-440V 50Hz 0.37-110 kW
Max. DC Input Voltage	750V	850V
Recommended MPP Voltage	500-600	500-700V
Rated Conversion Efficiency	>97%	>97%
MPPT Efficiency	99%	
Ambient Temperature	-20 ~ 50 °C	
Display	LED	
Protection Grade	IP20	