SATTE

PRODUCT DATASHEET

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 inst a l lations 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.

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 - 185kW customized for higher power

Advanced Function
Support remote monitoring

Optional Function
Backup power supply
Boost Module

- 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 185kW and customized services for higher power levels;

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Pump Controller

Model	Power		Rated AC Input Current (A)	Rated AC Output Current (A)	Dimension		
	kW	HP			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 (≤2.2kW) 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 kWcustomized for higher power
Adapting Pump Motor	1PH 220-240V 50Hz0.37-4 kW	3PH 380-440V 50Hz0.37-110 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 ℃	
Display	LED	
Protection Grade	IP20	