

# SI32 Series

## Solar Pumping Inverter



IP65 for outdoor installation



Maximum power support up to 22kW



Anti-reverse connection and anti-backflow



Compatibility to various types of motors



AC/DC hybrid input for continuous operation

### Models and Appearance

Model	Rated Power (kW)	DC Voltage (V)	AC Voltage (V)	Output Current (A)
SI32-D5-004G-A	4	250~800	380~480	10
SI32-D5-5R5G-A	5.5	250~800	380~480	13
SI32-D5-7R5G-A	7.5	250~800	380~480	17
SI32-D5-011G-A	11	250~800	380~480	25



4kW~11kW

Model	Rated Power (kW)	DC Voltage (V)	AC Voltage (V)	Output Current (A)
SI32-D5-015G-A	15	250~800	380~480	32
SI32-D5-018G-A	18.5	250~800	380~480	38
SI32-D5-022G-A	22	250~800	380~480	45



15kW~22kW

## Technical Specifications

Input	
DC voltage	250~800V DC
Sugg. voltage	620~750V DC
Max. MPPT Efficiency	≥99.9%
AC voltage/frequency	3PH 380~480V 50/60Hz
Allowable fluctuation	-15%~10%      voltage imbalance rate: < 3%; frequency±5%
Output	
Output voltage	Output under rated conditions: three-phase, 0~input voltage (converted to AC values), deviation < 5%
Output frequency	0.00Hz~599.00Hz
Output frequency accuracy	±0.5% of the max. frequency
Control Performance	
Motor type	Asynchronous motor, synchronous motor, and synchronous reluctance motor
Control mode	V/F control, SVC, FVC, V-F split control
Modulation	SVPWM
Carrier frequency	1.0kHz~16.0kHz
Overload capacity	150% of rated load for 60s, 180% of rated load for 10s and 200% of rated load for 0.5s under 4kHz
Display and Keys	
Digital tube	Built-in panel for parameter display
Key function	Single and combined presses against accidental operation
Environment	
Installation method	Wall-mounting
Protection level	IP65
Working environment	Avoid installation in the places with oil, dust, corrosive, flammable and explosive gases in the air and vibration and places without condensation, icing, rain, snow, hail, etc., solar radiation<700W/m <sup>2</sup> , and air pressure 70kPa ~ 106kPa.
Ambient temperature and humidity	-10°C~+50°C, derate above 40°C, 60°C max. (no-load) 5%RH~95%RH (non-condensing)
Altitude	<1000 meters, derate by 1% for every 100 meters rise above 1000m
Vibration	5.9M/s <sup>2</sup> (0.6G) under 9Hz~200Hz
Storage temperature	-30°C~+60°C
Protection	
General	Under-voltage, over-voltage, input and output phase loss, overload, over-current, over-heat, phase-to-phase short-circuit, short-circuit to ground, stall and auto-tuning failure
PV-dedicated	Low-frequency, pump over-current, dry-out, minimum power protection, overflow, and sleep protection
Constant pressure	PID disconnection detection

