



# VEICHI

## SI32 Series Solar Pumping Inverter



### VEICHI

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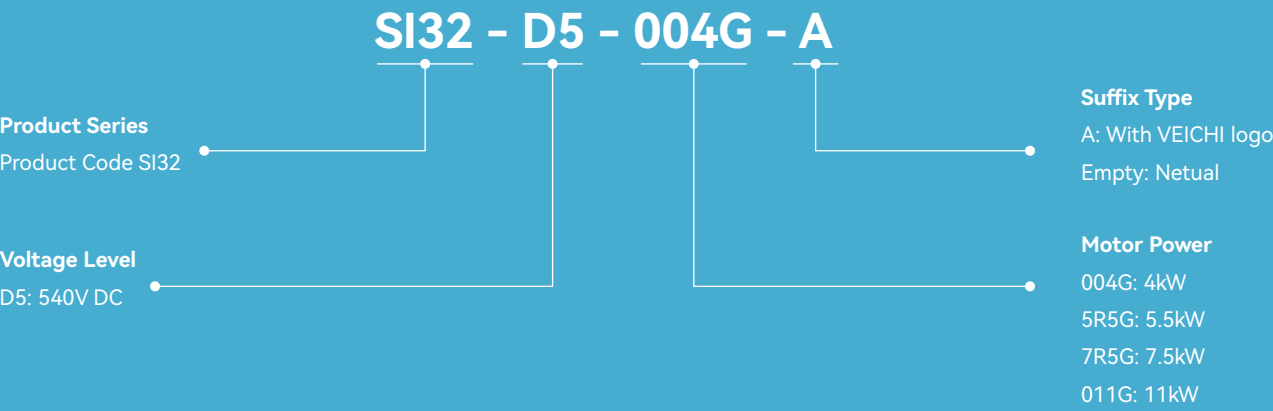
Official Website

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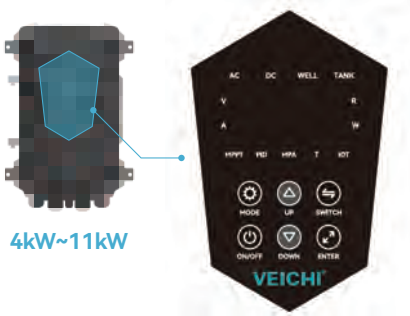
Stock Code: 688698

Naming Rules:

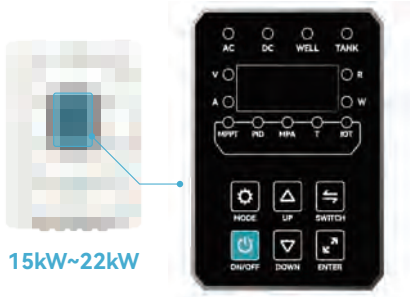


Model and Appearance:

Model	Rated Power (kW)	DC Input (V)	AC Input (V)	Rated Output Current (A)
SI32-D5-004G-A	4	250~850	380~480	10
SI32-D5-5R5G-A	5.5	250~850	380~480	13
SI32-D5-7R5G-A	7.5	250~850	380~480	17
SI32-D5-011G-A	11	250~850	380~480	25




Model	Rated Power (kW)	DC Input (V)	AC Input (V)	Rated Output Current (A)
SI32-D5-015G-A	15	250~850	380~480	32
SI32-D5-018G-A	18.5	250~850	380~480	38
SI32-D5-022G-A	22	250~850	380~480	45



Technical Specifications:

Input	
DC voltage	250~850V 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~600.00Hz
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	Install them in the places without oil, dust, corrosive,flammable and explosive gases in the air, vibration,condensation, icing, rain, snow, hail, etc.,
Ambient temperature and humidity	-10°C~+50°C, derate above 40°C, 60°C max. (no-load) 5%RH~95%RH (non-condensation)
Altitude	<1000 meters,derate by 1% for every 100 meters rise above 1000m
Vibration	5.9M/s2 (0.6G) under 9Hz~200Hz.
Storage temperature	-30°C~+60°C
Protection	
General	Under-voltage, over-voltage, i/o 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, min. power protection, overflow, and sleep protection
Constant pressure	PID disconnection detection

Main Circuit Terminal

Type	Mark	Name
Input	R, S, T	Three-phase 380V power input terminals
	-, +	DC bus positive and negative input terminals
Output	U, V, W	Drive output terminal
Ground		Grounding terminal

Control Circuit Terminal

Type	Mark	Name	Description
Power	+10V GND	+10V	Provide +10V power supply to the external devices, with maximum output current of 50mA; generally used as the power supply for external potentiometer with the resistance range of 1kΩ~5kΩ
	+24V GND	+24V	Provide +24V power supply to the external devices; generally used as the power supply for DI and DO terminals and external sensors. Max. output current: 100mA
AI	AI	Encoder signal input	Range: DC 0V~10V(0mA~20mA)
DI	TH	X1	Opto-isolator, compatible with bipolar input 1. Input impedance: 4.4KΩ 2. Voltage at high-level input: 10V~30V 3. Voltage at low-level input: 0V~5V
	TL	X2	
	WELL	X3	
	X4	X4	
Communication	A+	485 communication terminal A	For 485 communication
	B-	485 communication terminal B	

Service and Support

