

Empowering Sustainable Water Solutions with Reliable Solar Energy.



SOLAR PUMP INVERTER

IGBT DSP CHIP TECHNOLOGY

Equipped with an advanced IGBT (Insulated Gate Bipolar Transistor) DSP (Digital Signal Processor) chip for efficient and reliable power management.



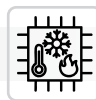
ENHANCED SAFETY

Designed with multiple safety features, including relays, capacitors, and optocouplers to protect against electrical issues.



EFFICIENT HEAT MANAGEMENT

Built-in fan for optimal heat dissipation, ensuring stable performance and longevity.



SOLAR POWER COMPATIBILITY

Specifically engineered to convert solar energy for motor pumping applications, reducing reliance on grid electricity.



USER-FRIENDLY WIRING

Comes with a wiring diagram to simplify installation and setup, making it easier to integrate into existing systems.



RELIABLE BRAND SUPPORT

Provided by Crown Solar Energy, known for durable and dependable solar-powered solutions.



Selection Guide

Model NO.	Rated Power(kW)	Rated Input Current(A)	Rated Output Current(A)
3AC 380V ±15%			
CHF100A-004G/5R5P-4	4.0/5.5	10/15	9/13
CHF100A-5R5G/7R5P-4	5.5/7.5	15/20	13/17
CHF100A-7R5G/011P-4	7.5/11	20/26	17/25
CHF100A-011G/015P-4	11/15	26/35	25/32
CHF100A-015G/018P-4	15/18.5	35/38	32/37
CHF100A-018G/022P-4	18.5/22	38/46	37/45
CHF100A-022G/030P-4	22/30	46/62	45/60
CHF100A 030G/037P 4	30/37	62/76	60/75

Technical Features

I/O Features	Input Voltage Range	380/220V±15%
	Input Frequency Range	47~63Hz
	Output Voltage Range	0~rated input voltage
	Output Frequency Range	0~400Hz
I/O Terminals	Input Terminals	programmable DI:7, 1 high speed pulse; programmable AI:2, AI1: -10V~10V; AI2: 0~10V or 0~20mA;
	Output Terminals	programmable open collector output:1(open collector or high speed pulse output selectable); programmable relay output:2 programmable AI:2, 0/4~20mA or 0~10V selectable.
	Communication Terminals	provide RS485 communication interface, adopt Modbus-RTU communication mode.
Control Function	Control Mode	V/F control, sensorless vector control (SVC)
	Speed Adjusting Range	1:100(SVC)
	Overload Capacity	150% rated current 60s, 180% rated current 10s .
	Frequency Reference Source	Keypad, analog input, HDI, serial communication, multi-step speed, simple PLC and PID. The combination of multi- modes and the switch between different modes can be realized.
	Other Functions	• Traverse Control Function • PID Control Function • Simple PLC, Multi-Steps Speed Control Function: 16 steps speed can be set. • None-Stop when instantaneous power off. • Speed Trace Function: Smoothly start the running motor. • Automatic Voltage Regulation Function (AVR): • Up to 23 fault protections: over current, over voltage, under voltage, over temperature, phase failure, overload etc.
Man-machine Interface	LED Display	Can display: setting frequency,output frequency,output voltage,output current etc.
	Multi-function Key-press	The QUICK/JOG key-press can be used as multi-function key-press.
EMC	EMC Criterion	if the installing and wiring of the inverter together with the EMI filter according to 《Manual of CHF100A》, we can promise it's must meet the following criterion: • EN61000-6-4 • EN61800-3 [Normally, if the cable of motor is longer than 50m, it's should install AC reactor or sinusoidal filter at the output side of the inverter.]
Environmental Constraint	Temperature	-10°C ~ +40°C. Inverter will be derated if ambient temperature exceeds 40°C.
	Humidity	≤90%, without condensation
	Altitude	≤1000M, output rated power >1000M, output power with derating
	Impingement and Oscillation	The inverter is prohibited to drop on the floor or with suddenly impact, it also prohibited to be installed at the place where the oscillation may occur very probably.
	Electromagnetic Radiation	The inverter is prohibited to be installed at the place where stronger electromagnetic radiation may occur very probably.
	Store Environment	The inverter is prohibited to be stored at the place where with direct sunlight, fall of oil mist, steam and with heavy oscillation.