



# PRICOR

## SOLAR PUMP INVERTER

Rated Power(kw) 5.5/7.5/11/15/18.5/22/30



**ADVANCED IGBT DSP CHIP TECHNOLOGY** Features a state-of-the-art IGBT (Insulated Gate Bipolar Transistor) and DSP (Digital Signal Processor) chip for efficient and reliable power management.



**ENHANCED SAFETY FEATURES** Incorporates multiple safety components, including relays, capacitors, and optocouplers, to safeguard against electrical issues.



**EFFICIENT THERMAL MANAGEMENT** Equipped with a built-in fan for effective heat dissipation, ensuring consistent performance and extended lifespan.



**SOLAR ENERGY COMPATIBILITY** Optimized for solar energy conversion, making it ideal for motor pumping applications and reducing dependency on grid electricity.



**SIMPLIFIED WIRING AND SETUP** Includes a clear wiring diagram to streamline installation and ensure easy integration into existing systems.



**RELIABLE BRAND ASSURANCE** Backed by Crown Solar Energy, a trusted name in durable and dependable solar-powered solutions.

**24/7**  
AFTER SALES  
SERVICE



## Selection Guide

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

## Technical Features

|                                 |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>I/O Features</b>             | Input Voltage Range         | 380/220V±15%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                 | Input Frequency Range       | 47~63Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                 | Output Voltage Range        | 0~rated input voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                 | Output Frequency Range      | 0~400Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>I/O Terminals</b>            | Input Terminals             | programmable DI:7, 1 high speed pulse;<br>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);<br>programmable relay output:2<br>programmable AI:2, 0/4~20mA or 0~10V selectable.                                                                                                                                                                                                                                                                                                                                     |
|                                 | Communication Terminals     | provide RS485 communication interface, adopt Modbus-RTU communication mode.                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Control Function</b>         | 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.<br>The combination of multi- modes and the switch between different modes can be realized.                                                                                                                                                                                                                                                                                                                                  |
|                                 | Other Functions             | <ul style="list-style-type: none"> <li>• Traverse Control Function</li> <li>• PID Control Function</li> <li>• Simple PLC, Multi-Steps Speed Control Function: 16 steps speed can be set.</li> <li>• None-Stop when instantaneous power off.</li> <li>• Speed Trace Function: Smoothly start the running motor.</li> <li>• Automatic Voltage Regulation Function (AVR):</li> <li>• Up to 23 fault protections: over current, over voltage, under voltage, over temperature, phase failure, overload etc.</li> </ul> |
| <b>Man-machine Interface</b>    | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>EMC</b>                      | EMC Criterion               | if the installing and wiring of the inverter together with the EMI filter according to<br>《Manual of CHF100A》, we can promise it's must meet the following criterion: <ul style="list-style-type: none"> <li>• EN61000-6-4</li> <li>• EN61800-3</li> </ul> [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.]                                                                                                           |
| <b>Environmental Constraint</b> | Temperature                 | -10°C ~ +40°C. Inverter will be derated if ambient temperature exceeds 40°C.                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                 | Humidity                    | ≤90%, without condensation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                 | Altitude                    | ≤1000M, output rated power<br>>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.                                                                                                                                                                                                                                                                                                                                                                               |