

# TK-HP-SERIVES



## Features

- ▶ Pure sine wave solar inverter(on/off Grid)
- ▶ Output power factor 1.0
- ▶ WIFI&GPRS available for IOS and Android
- ▶ Inverter running without battery
- ▶ One-key restoration to factory Settings
- ▶ Built-in Lithium battery automatic activation
- ▶ Built-in 120A(for 3.6KW/6.2KW)/140A(for 4.2KW)
- ▶ MPPT:Max 6200w(for 3.6kw/4.2kw),max 6500w (for 6.2kw) solar charge
- ▶ High PV input voltage range(90~450VDC) Built-in anti-dusk kit for harsh environment
- ▶ Smart battery charge design to optimize battery life
- Dual output(V2.0)

**140A**  
MAX PV  
CHARGING

**PURE**  
SINE WAVE

WORKS  
WITH AND WITHOUT  
BATTERY

UPGRADED  
MPPT

LI-ION

BUILT IN  
ANTI DUST  
KIT

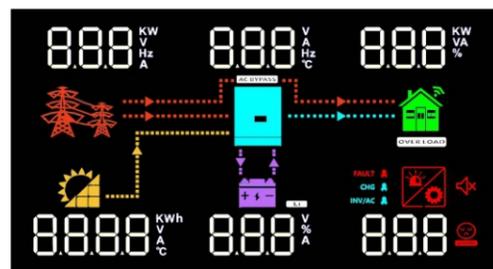
## RGB LIGHT

RGB lighting for different working mode

RGB automatically switches with the working mode of the inverter:  
 Battery mode: red;  
 Utility mode: blue;  
 PV mode: purple;



## LCD Display



## WIFI&GPRS available for ios and Android



| MODEL  | TAICO-HP-3.6KW PLUS     | TAICO-HP-4.2KW PLUS | TAICO-HP-6.2KW PLUS |
|--|-------------------------|---------------------|---------------------|
| Phase  | 1-phase                 |                     |                     |
| Maximum PV Input Power                                   | 6200W                   | 6200W               | 6500W               |
| Rated Output Power                                       | 3600W                   | 4200W               | 6200W               |
| Maximum Solar Charging Current                           | 120A                    | 140A                | 120A                |
| <b>GRID-TIE OPERATION</b>                                |                         |                     |                     |
| PV Input(DC)   |                         |                     |                     |
| Nominal DC Voltage/Maximum DC Voltage                    | 360VDC/500VDC           |                     |                     |
| Start-up Voltage/Initial Feeding Voltage                 | 90VDC/120VDC            |                     |                     |
| Maximum DC Voltage                                       | 90~450VDC               |                     |                     |
| Number of MPPT Trackers/Maximum Input Current            | 1/27A                   |                     |                     |
| GRID OUTPUT(AC)  |                         |                     |                     |
| Nominal Output Voltage                                   | 200/230/240VAC          |                     |                     |
| Output Voltage Range                                     | 195.5~253VAC            |                     |                     |
| Nominal Output Current                                   | 15.7A                   | 18.2A               | 27.0A               |
| Power Factor   | >0.99                   |                     |                     |
| Feed-in Grid Frequency Range                             | 49~51±1Hz               |                     |                     |
| EFFICIENCY   |                         |                     |                     |
| Maximum Conversion Efficiency( S <sub>load</sub> to AC ) | 98 %                    |                     |                     |
| TWO LOAD OUTPUT POWER(V2.0)                              |                         |                     |                     |
| Full Load  | 3600W                   | 4200W               | 6200W               |
| Maximum Main Load  | 3600W                   | 4200W               | 6200W               |
| Maximum Second Load(battery mode)                        | 1200W                   | 1400W               | 2067W               |
| Main Load Cut Off Voltage                                | 22VDC                   | 22VDC               | 44VDC               |
| Main Load Return Voltage                                 | 24VDC                   | 24VDC               | 48VDC               |
| OFF-GRID OPERATION                                       |                         |                     |                     |
| AC INPUT   |                         |                     |                     |
| AC Start-up Voltage/Auto Restart Voltage                 | 120-140VAC/180VAC       |                     |                     |
| Acceptable Input Voltage Range                           | 90-280VAC or 170-280VAC |                     |                     |
| Maximum AC Input Current                                 | 30A                     | 30A                 | 40A                 |
| Nominal operating frequency                              | 50/60Hz                 |                     |                     |
| Surge power  | 7200W                   | 8400W               | 12400 W             |
| BATTERY MODE OUTPUT(AC)                                  |                         |                     |                     |
| Nominal Output Voltage                                   | 24VDC                   | 24VDC               | 48VDC               |
| Output Waveform  | Pure sine wave          |                     |                     |
| Efficiency(DC to AC)                                     | 94%                     |                     |                     |
| BATTERY & CHARGER  |                         |                     |                     |
| Nominal DC Voltage                                       | 24VDC                   | 24VDC               | 48VDC               |
| Maximum Charging Current (Solar to AC)                   | 120A                    | 140A                | 120A                |
| Maximum AC Charging Current                              | 100A                    |                     |                     |
| GENERAL  |                         |                     |                     |
| PHYSICAL   |                         |                     |                     |
| Dimension,D x W x H(mm)                                  | 400*300*100             |                     |                     |
| Net Weight(kgs)  | 10                      | 11                  | 11                  |
| INTERFACE  |                         |                     |                     |
| Communication Port                                       | RS232/WIFI/GPRS         |                     |                     |
| ENVIRONMENT  |                         |                     |                     |
| Operating Temperature                                    | -10 ~50℃                |                     |                     |