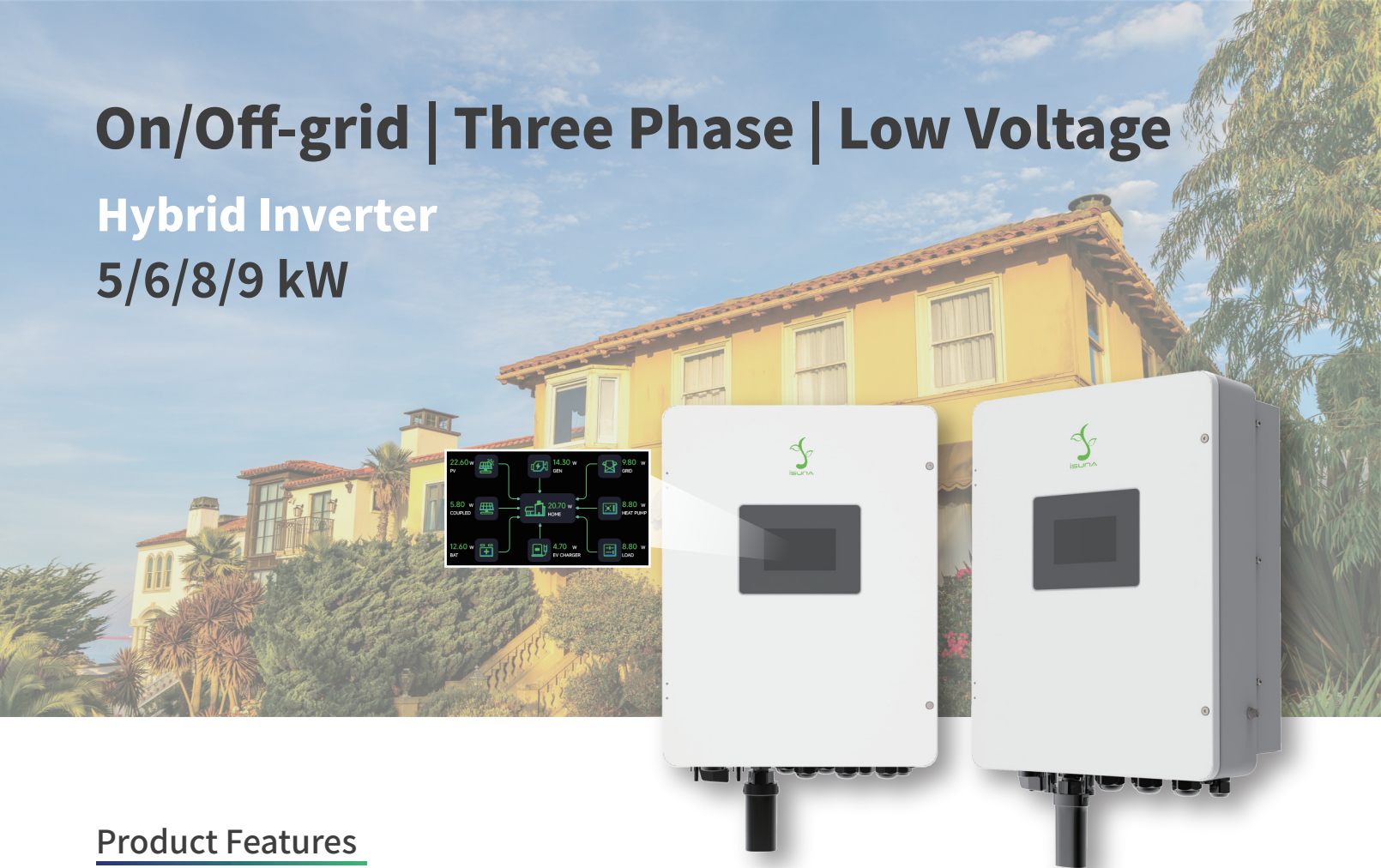


# On/Off-grid | Three Phase | Low Voltage

## Hybrid Inverter

### 5/6/8/9 kW



## Product Features



### Wide PV Input

- 150%-200% PV Input Power
- 20A PV Input Current
- 2 MPPT Tracks



### Robust Grid Input

- 155%-200% Grid Input Power
- Supports simultaneous load power supply and battery charging



### High Efficiency

- Silicon Carbide (SiC) Technology
- Max. Conversion Efficiency up to 97.8%
- Lower losses, higher power generation for improved energy-use returns



### Wide Grid Voltage

- 184-276V Supported Grid Voltage
- Suitable for areas with fluctuating mains voltage
- Stable performance under weak-grid conditions



### Strong Overload

- 100% unbalanced three-phase output
- Supports 155%-280% (10s) continuous overload
- Smooth startup, no tripping & no power interruption



### Parallel Operation

- Up to 6-unit parallel operation (off-grid mode)
- Flexible power expansion for high-power loads
- Stable parallel connection & great expandability



### Battery Compatibility

- Compatible with lead-acid, lithium and sodium-ion batteries
- Intelligent charge-discharge strategy
- Precise protection extends battery life



### Long Official Warranty

- 5-year standard warranty included
- IP65 protection rating stable and durable
- Intelligent temperature-controlled fan for quiet operation



### Executive Gen Smart Load Port

- Auto start-stop for generator
- Max. generator input current 54A

| Model Name                       | Isuna C5K-TL-S                                                                                                                                                                                                                                        | Isuna C6K-TL-S | Isuna C8K-TL-S | Isuna C9K-TL-S |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|
|                                  | Off-grid Output                                                                                                                                                                                                                                       |                |                |                |
| Rated Output Power               | 5kW                                                                                                                                                                                                                                                   | 6kW            | 8kW            | 9kW            |
| Max. Output Power                | 5.5kVA                                                                                                                                                                                                                                                | 6.6kVA         | 8.8kVA         | 9kVA           |
| Max. Output Current              | 8.3A                                                                                                                                                                                                                                                  | 10A            | 13.3A          | 13.6A          |
| Peak Power & Duration            | 14kW-10s*                                                                                                                                                                                                                                             |                |                |                |
| Rated Voltage                    | 3/N/PE, 220/380Vac, 230/400Vac                                                                                                                                                                                                                        |                |                |                |
| Rated Frequency                  | 50/60Hz                                                                                                                                                                                                                                               |                |                |                |
| THDu                             | <3%                                                                                                                                                                                                                                                   |                |                |                |
| Switching Time                   | <10ms                                                                                                                                                                                                                                                 |                |                |                |
|                                  | On-grid Parameter                                                                                                                                                                                                                                     |                |                |                |
| Rated Output Power               | 5kW                                                                                                                                                                                                                                                   | 6kW            | 8kW            | 9kW            |
| Max. Output Power                | 5.5kVA                                                                                                                                                                                                                                                | 6.6kVA         | 8.8kVA         | 9kVA           |
| Max. Output Current              | 8.3A                                                                                                                                                                                                                                                  | 10A            | 13.3A          | 13.6A          |
| Max. Grid Input Current          | 15.2A                                                                                                                                                                                                                                                 | 18.2A          | 21.2A          | 21.2A          |
| Rated Grid Voltage               | 3/N/PE, 220/380Vac, 230/400Vac                                                                                                                                                                                                                        |                |                |                |
| Grid Voltage Range               | 185-276V(P2N)                                                                                                                                                                                                                                         |                |                |                |
| Grid Frequency                   | 50/60±5Hz                                                                                                                                                                                                                                             |                |                |                |
| THDi                             | <3%                                                                                                                                                                                                                                                   |                |                |                |
|                                  | PV Input                                                                                                                                                                                                                                              |                |                |                |
| Rec. Max. Install Pwr.           | 12.5kWp                                                                                                                                                                                                                                               | 15kWp          | 17.5kWp        | 17.5kWp        |
| Max. Input Power                 | 10kWp                                                                                                                                                                                                                                                 | 12kWp          | 14kWp          | 14kWp          |
| Startup Voltage                  | 140V                                                                                                                                                                                                                                                  |                |                |                |
| Max. Input Voltage               | 800V                                                                                                                                                                                                                                                  |                |                |                |
| MPPT Voltage Range               | 130V-800V                                                                                                                                                                                                                                             |                |                |                |
| Number of MPPT                   | 2                                                                                                                                                                                                                                                     |                |                |                |
| No. of Strings per MPPT          | 1                                                                                                                                                                                                                                                     |                |                |                |
| Max. Input Current               | 20A/20A                                                                                                                                                                                                                                               |                |                |                |
| Short-ckt Current                | 24A/24A                                                                                                                                                                                                                                               |                |                |                |
|                                  | Battery Parameter                                                                                                                                                                                                                                     |                |                |                |
| Battery Type                     | Lithium-ion/Lead-acid/Sodium-ion                                                                                                                                                                                                                      |                |                |                |
| No. of Battery Inputs            | 1                                                                                                                                                                                                                                                     |                |                |                |
| Battery Voltage Range            | 30-60V                                                                                                                                                                                                                                                |                |                |                |
| Max. Chg/Disch. Curr.            | 125A/140A                                                                                                                                                                                                                                             |                |                |                |
|                                  | Generator Parameter                                                                                                                                                                                                                                   |                |                |                |
| Max. Input Current               | 15.2A                                                                                                                                                                                                                                                 | 18.2A          | 21.2A          | 21.2A          |
| Rated Output Voltage             | 3/N/PE, 220/380Vac, 230/400Vac                                                                                                                                                                                                                        |                |                |                |
| Voltage Range                    | 185~276V                                                                                                                                                                                                                                              |                |                |                |
|                                  | Efficiency                                                                                                                                                                                                                                            |                |                |                |
| Max. Efficiency                  | 97.8%                                                                                                                                                                                                                                                 |                |                |                |
| European Efficiency              | 97.3%                                                                                                                                                                                                                                                 |                |                |                |
| Max. Batt. Chg-Disch. Efficiency | 95%                                                                                                                                                                                                                                                   |                |                |                |
|                                  | General Data                                                                                                                                                                                                                                          |                |                |                |
| Dimensions(W*H*D)                | 380*500*180mm                                                                                                                                                                                                                                         |                |                |                |
| Weight                           | 25kg                                                                                                                                                                                                                                                  |                |                |                |
| Noise Level                      | <45dB(A)                                                                                                                                                                                                                                              |                |                |                |
| Operating Temperature            | -25°C~60°C (>45°C Derating)                                                                                                                                                                                                                           |                |                |                |
| Operating Altitude               | 4000m(>3000m Derating, 2% derating per 100 m elevation increase)                                                                                                                                                                                      |                |                |                |
| Battery Topology                 | Isolation                                                                                                                                                                                                                                             |                |                |                |
| Cooling Type                     | Intelligent Air Cooling                                                                                                                                                                                                                               |                |                |                |
| IP Rating                        | IP 65                                                                                                                                                                                                                                                 |                |                |                |
| Comm. Interface                  | RS485*1,Wi-Fi/4G dongle*1,DO*2,DRM*1                                                                                                                                                                                                                  |                |                |                |
| Protection                       | DC Switch; OC / OV Protection; AC Short-ckt Protection; Anti-islanding Protection; Resid. Current Detection; Insul. Resistance Detection; Surge Protection: DC Type II / AC Type III; Lightning Protection; Reverse-insertion Protection (PV & Batt.) |                |                |                |
|                                  | Certification                                                                                                                                                                                                                                         |                |                |                |
| CE-LVD                           | IEC 62109-1, IEC 62109-2, EN 62109-1, EN 62109-2, IEC 62040-1                                                                                                                                                                                         |                |                |                |
| CE-EMC                           | EN61000-6-1, EN61000-6-2, EN61000-6-3,EN61000-6-4 EN 61000-4-16, EN 61000-4-18,EN 61000-4-29                                                                                                                                                          |                |                |                |

\*Technical data are typical laboratory values and may vary in practical application