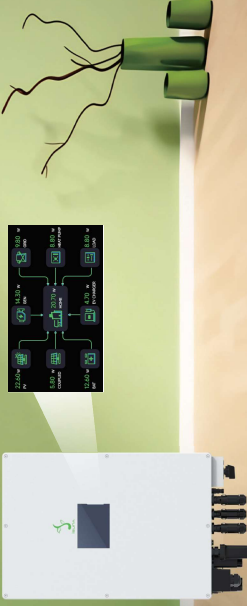


## On/off-grid | Three Phase | Low Voltage

# Hybrid Inverter

5/6/8/10/12kW



## Product Features



| Model Name                                   | Isuna D5K-TL-S                                                                                                                                                                                                                                                 | Isuna D6K-TL-S | Isuna D8K-TL-S | Isuna D10K-TL-S | Isuna D12K-TL-S |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|-----------------|-----------------|
| Off-grid Output                              |                                                                                                                                                                                                                                                                |                |                |                 |                 |
| Rated Output Power                           | 5kW                                                                                                                                                                                                                                                            | 6kW            | 8kW            | 10kW            | 12kW            |
| Max. Output Power                            | 5.5kVA                                                                                                                                                                                                                                                         | 6.6kVA         | 8.8kVA         | 11kVA           | 13.2kVA         |
| Peak Power & Duration                        | 20kVA(10s)*                                                                                                                                                                                                                                                    |                |                |                 |                 |
| Max. Output Current                          | 8.3A                                                                                                                                                                                                                                                           | 10A            | 13.3A          | 16A             | 20A             |
| Rated Output Voltage                         | L/N/PE, 220V/230V/240V                                                                                                                                                                                                                                         |                |                |                 |                 |
| Switching Time                               | <10ms                                                                                                                                                                                                                                                          |                |                |                 |                 |
| GEN Max. Current                             | 36.4A                                                                                                                                                                                                                                                          |                |                |                 |                 |
| GEN Voltage Range                            | 185-276V(P2N)                                                                                                                                                                                                                                                  |                |                |                 |                 |
| On-grid Parameter                            |                                                                                                                                                                                                                                                                |                |                |                 |                 |
| Rated Output Power                           | 5kW                                                                                                                                                                                                                                                            | 6kW            | 8kW            | 10kW            | 12kW            |
| Max. Output Power                            | 5.5kVA                                                                                                                                                                                                                                                         | 6.6kVA         | 8.8kVA         | 11kVA           | 13.2kVA         |
| Max. Output Current                          | 8.3A                                                                                                                                                                                                                                                           | 10A            | 13.3A          | 16A             | 20A             |
| Max. Input Power                             | 24kVA                                                                                                                                                                                                                                                          |                |                |                 |                 |
| Rated Voltage                                | 3/N/PE, 220/380Vac, 230/400Vac                                                                                                                                                                                                                                 |                |                |                 |                 |
| Grid Voltage range                           | 185-276V (P2N)                                                                                                                                                                                                                                                 |                |                |                 |                 |
| Grid Frequency                               | 50/60±5Hz                                                                                                                                                                                                                                                      |                |                |                 |                 |
| PV Input                                     |                                                                                                                                                                                                                                                                |                |                |                 |                 |
| Max. Input Power                             | 18kW                                                                                                                                                                                                                                                           |                |                |                 |                 |
| Max. Input Voltage                           | 800V                                                                                                                                                                                                                                                           |                |                |                 |                 |
| Number of MPPT                               | 3                                                                                                                                                                                                                                                              |                |                |                 |                 |
| Max. Input String Per MPPT                   | 1/1/1                                                                                                                                                                                                                                                          |                |                |                 |                 |
| MPPT Voltage Range                           | 130-800V                                                                                                                                                                                                                                                       |                |                |                 |                 |
| Starting Voltage                             | 140V                                                                                                                                                                                                                                                           |                |                |                 |                 |
| Max. Input Current                           | 20A/20A/20A                                                                                                                                                                                                                                                    |                |                |                 |                 |
| Short-Circuit Current                        | 24A/24A/24A                                                                                                                                                                                                                                                    |                |                |                 |                 |
| Battery Parameter                            |                                                                                                                                                                                                                                                                |                |                |                 |                 |
| Battery Type                                 | Lithium-Ion/Lead-Acid/Sodium-Ion                                                                                                                                                                                                                               |                |                |                 |                 |
| Number of Battery Input                      | 2                                                                                                                                                                                                                                                              |                |                |                 |                 |
| Battery Voltage Range                        | 30-60V                                                                                                                                                                                                                                                         |                |                |                 |                 |
| Battery Charging/Discharging Current         | 125A*2                                                                                                                                                                                                                                                         |                |                |                 |                 |
| Efficiency                                   |                                                                                                                                                                                                                                                                |                |                |                 |                 |
| Max. Efficiency                              | 98.20%                                                                                                                                                                                                                                                         |                |                |                 |                 |
| European Efficiency                          | 97.70%                                                                                                                                                                                                                                                         |                |                |                 |                 |
| Max. Battery Charging/Discharging Efficiency | 95.00%                                                                                                                                                                                                                                                         |                |                |                 |                 |
| General Data                                 |                                                                                                                                                                                                                                                                |                |                |                 |                 |
| Size(W*H*D)                                  | 465mm*665mm*175mm                                                                                                                                                                                                                                              |                |                |                 |                 |
| Weight                                       | 36kg                                                                                                                                                                                                                                                           |                |                |                 |                 |
| Noise                                        | <45dB(A)                                                                                                                                                                                                                                                       |                |                |                 |                 |
| Operating Temperature                        | -25℃--+60℃ (>45℃ Derating)                                                                                                                                                                                                                                     |                |                |                 |                 |
| Operating Altitude                           | 4000m(>3000m Derating)                                                                                                                                                                                                                                         |                |                |                 |                 |
| Cooling Method                               | Intelligent Air Cooling                                                                                                                                                                                                                                        |                |                |                 |                 |
| Ingress Protection Grade                     | IP65                                                                                                                                                                                                                                                           |                |                |                 |                 |
| Battery Topology                             | Isolation                                                                                                                                                                                                                                                      |                |                |                 |                 |
| Communication Port                           | LED/WIFI/4G/bluetooth/RS485                                                                                                                                                                                                                                    |                |                |                 |                 |
| Protection                                   | DC Switch; Reverse Polarity Protection; AC Overvoltage/Overcurrent/Short Circuit Protection; Anti-Islanding Protection; Residual Current Monitoring; Insulation Resistance Detection; Surge Protection;DC Type II / AC Type III; AFCI(Optional); PID(Optional) |                |                |                 |                 |
| Certification                                |                                                                                                                                                                                                                                                                |                |                |                 |                 |
| CE-LVD                                       | IEC62109-1&2, IEC62040-1                                                                                                                                                                                                                                       |                |                |                 |                 |
| CE-EMC                                       | EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4<br>EN 61000-4-16, EN 61000-4-18,EN 61000-4-29                                                                                                                                                               |                |                |                 |                 |
| Grid                                         | VDE-AR-N 4105; VDE 0126-1-1 EN 50549-1; G98; G100; CEI 0-21; AS/NZS4777.2 NRS 097.2-1                                                                                                                                                                          |                |                |                 |                 |