| Datasheet | SPM 8000TL-HU2 | SPM 10000TL-HU2 |
|---|---|---|
| **Input data (DC)** | | |
| Max.PV access power | 16000W | 20000W |
| Max. PV Input Power (W) | 12800W | 16000W |
| Max. DC voltage | 550V | |
| Start voltage | 80V | |
| MPP voltage range | 80-525V | |
| No. of MPP trackers | 2 | |
| No. of PV strings per MPP tracker | 2 | |
| Max. input current per MPP tracker | 32A | |
| Max. short-circuit current per MPP tracker | 48A | |
| **AC input data (AC)** | | |
| Nominal AC input power | 8000W | 10000W |
| Nominal input voltage | 230V | |
| Nominal input current | 34.8A | 43.4A |
| Max. grid passthrough power | 11000W | |
| Max. generator input power | 11000W | 11000W |
| **Output data (AC)** | | |
| AC nominal power | 8000W | 10000W |
| Max. AC apparent power | 8000VA | 10000VA |
| Nominal AC voltage (range*) | 230V | |
| AC grid frequency (range*) | 50Hz | |
| Max. output current | 50A | |
| Adjustable power factor | 0.8leading…0.8lagging | |
| THDi | <3% | |
| AC grid connection type | Single phase | |
| **Battery data (DC)** | | |
| Battery voltage range | 40~60V | |
| Max charging and discharging current | 170A | 210A |
| Continuous charging and discharging power | 8000W | 10000W |
| Communication protocol | CAN/RS485 | |
| Type of battery | Lithium battery/Lead-acid battery | |
| **Backup power (AC)** | | |
| AC nominal output power | 8000W | 10000W |
| Nominal AC output voltage | 230V single phase | |
| Nominal AC output frequency | 50Hz | |
| Switch time | <10ms | |
| Overload capability | 200% Full Load@10S | |
| **Efficiency** | | |
| Peak. efficiency | 97.50% | |
| Europe efficiency | 96.50% | |
| MPPT efficiency | ≥99.5% | |
| **Protection devices** | | |
| PV switch | Yes | |
| AC over current protection | Yes | |
| AC over voltage protection | Yes | |
| Ground fault monitoring | Yes | |
| Grid monitoring | Yes | |
| Anti-islanding protection | Yes | |
| Residual-current monitoring unit | Yes | |
| Insulation resistance monitoring | Yes | |
| AFCI protection | Optional | |
| Surge protection | Yes | |
| **General data** | | |
| Max stackable number | 6 | |
| Dimensions (W / H / D) | 363*653*229mm | |
| Weight | Gross Weight: 30kg, Net Weight: 26.5kg | |
| Operating temperature range | -25℃ ... +60℃ with derating above 45℃ | |
| Noise emission (typical) | ≤ 50 dB(A) | |
| Topology | Tranformerless | |
| Cooling | Smart Fan Cooling | |
| Protection degree | IP66 | |
| Relative humidity | 0~100% | |
| Altitude | 2000m | |
| Display | LCD touch screen | |
| Interfaces: RS485/CAN/USB | Yes | |
| Communication | WIFI | |
| Warranty | 5 years | |
| CE, IEC 62116, IEC 61683, IEC 61727, IEC 60068, NRS097, EN61000, EN50549 | | |

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# SPM 8-10KTL-HU2

Residential Energy Storage System
(8/10KW)

**High Power Generation**

Lower start-up voltage: 80V
Wide MPPT voltage range: 80-525V
Up to 210A charge/discharge current

**Flexible Applications**

Supports generator function
Supports up to 6 units in parallel
Supports DC-coupled, AC-coupled, AC-retrofit
Supports forming a 400V three-phase system

**Reliable**

IP66 design
Type II surge protection for DC and AC sides
AFCI, Anti-island, AC overvoltage/overcurrent protection

**Enhanced Off-grid Performance**

10ms
UPS function, <10ms transition
Supports 200% overload for 10 seconds

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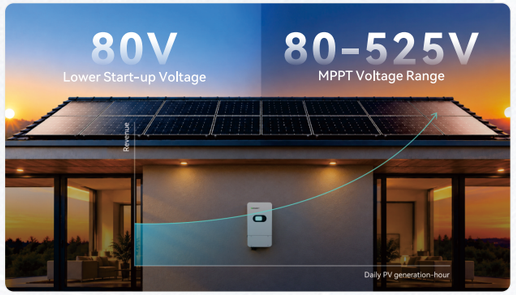
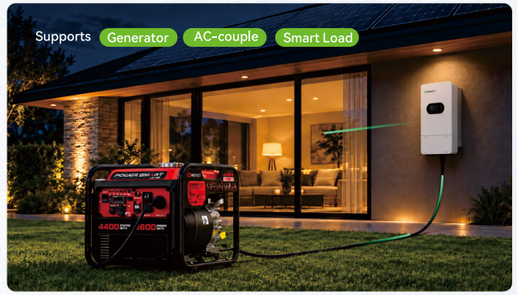
# SPM 8-10KTL-HU2 Core Advantages

## 01 High-Utilization




## 02 Flexible Applications




## 03 High Reliability & Adaptation




## 04 Seamless Transition




## 05 Quick Local & Remote Firmware Updates




## 06 More Battery Choices




# Versatile Application Functions

### Self-Consumption
Store surplus solar energy for later use to maximize the solar energy self-consumption rate

### Peak-Shaving
Charges as a load during low-load periods; discharges as a power source during peak-load periods.

### Time of Use
Charge during off-peak hours and discharge during peak hours to arbitrage electricity rates

### Back-up
Provide instant and stable backup power to critical loads during grid outages

### PV-Only Backup
Supports powering backup solely with PV input, with no gird and battery

### Micro-Grid
Form a resilient microgrid with PV, battery, and generator integration for off-grid or weak-grid stability

## Intelligent Control & Monitoring

- Quick site setup and commissioning
- Precise operation data display
- Clear visualization of user benefits
- Efficient energy management function and interface
- On-screen interface available in 14 languages (English, Ukrainian, Urdu, etc.)




### High-Utilization
Low pv startup soltage & wide MPPT range for higher energy yield & returns

### Higher Safety
Lower operational risks and stable performance

### Smarter Interaction
Easy commissioning and real-time monitoring

### More Flexible
Support no battery mode and compatible with 3rd-party battery brands