Datasheet	SPM 8000TL-HU2	SPM 10000TL-HU2
Input data (DC)		
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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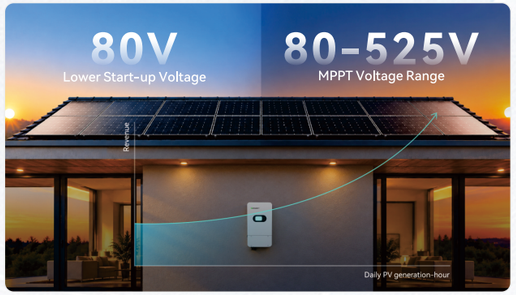
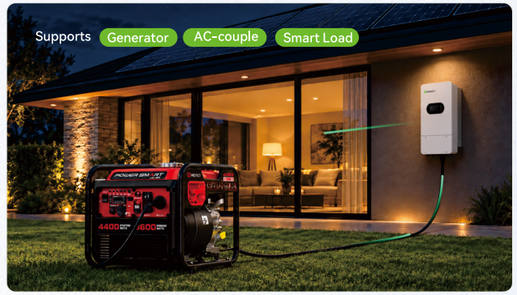
SPM 8-10KTL-HU2 Core Advantages

01 High-Utilization



02 Flexible Applications



03 High Reliability & Adaptation



04 Seamless Transition



05 Quick Local & Remote Firmware Updates



04 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

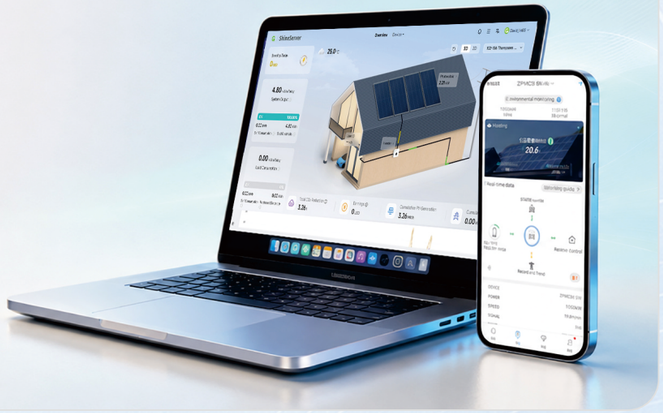
Supports powering backup solely with PV input, with no gird and battery

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