Datasheet	SPM 2500TL-HU2	SPM 3000TL-HU2	SPM 3600TL-HU2	SPM 5000TL-HU2	SPM 6000TL-HU2	SPM 8000TL-HU2
Input data (DC)						
Max.PV access power	5000W	6000W	7200W	10000W	12000W	16000W
Max. recommended PV power(for module STC)	4000W	4800W	5760W	8000W	9600W	12800W
Max. DC voltage	550V					
Start voltage	70V					
MPPT voltage range	80V-525V					
No. of MPP trackers	2					
No. of PV strings per MPP tracker	1					
Max. input current per MPP tracker	18A					
Max. short-circuit current per MPP tracker	27.5A					
AC input data (AC)						
Nominal AC input power	2500W	3000W	3600W	5000W	6000W	8000W
Nominal input voltage	220V/230V/240V					
Nominal input current	10.9A	13.1A	15.7A	21.8A	26.1A	34.8A
Max. grid passthrough current	40A					40A
Max. generator input power	9200W					
Output data (AC)						
AC nominal power	2500W	3000W	3600W	5000W	6000W	8000W
Max. AC apparent power	2750VA	3300VA	3960VA	5500VA	6600VA	8800VA
Nominal AC voltage (range*)	220V/230V/240V（90V-280V）					
AC grid frequency (range*)	50Hz(45Hz~55Hz)/60Hz(55Hz~65Hz)					
Max. output current	10.9A	13.1A	15.7A	21.8A	26.1A	34.8A
Adjustable power factor	0.8leading...0.8lagging					
THDi	<3%					
Battery data (DC)						
Battery voltage range	40~60V					
Max charging and discharging current	60A	70A	90A	120A	140A	170A
Continuous charging and discharging power	2500W	3000W	3600W	5000W	6000W	8000W
Type of battery	Lithium battery/Lead-acid battery					
Backup power (AC)						
AC nominal output power	2500W	3000W	3600W	5000W	6000W	8000W
Nominal AC output voltage	220V/230V/240V					
Nominal AC output frequency	50/60Hz					
Switch time	<10ms					
Overload capability	200% Full Load@10S					
Efficiency						
Peak. efficiency	97.5%					
Europe efficiency	96.60%					
MPPT efficiency	99.0%					
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	DC Type II / AC Type II					
General data						
Max stackable number	9					
Dimensions (W / H / D)	345*450*255mm					
Weight	19kg					
Operating temperature range	-25~60℃, >45℃ Derating					
Topology	Transformerless					
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/10years optional					
CE, IEC 62116, IEC 61683, IEC 61727, IEC 60068, NRS097, EN 61000						

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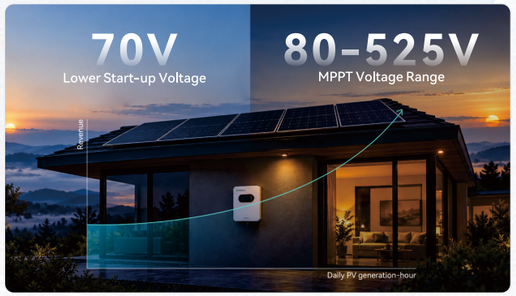
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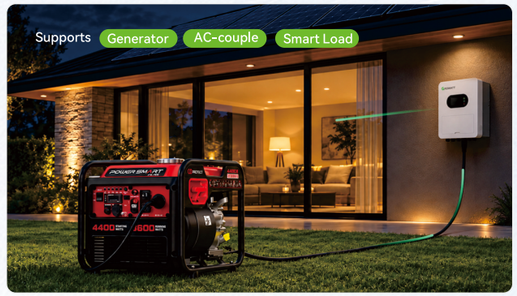


SPM 2.5-8KTL-HU2 Core Advantages

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