

# SPM 8000~10000TL-HU

- UPS function, 10ms transition
- 2.0 DC/AC Ratio with 3 Mppts
- DC-coupled and AC-coupled applications
- Type II Surge protection for DC and AC sides
- Support charge from diesel generator
- Support for a 400V three-phase system
- Support up to 6 units in parallel



P O W E R  
- I N G O  
T O M O -  
R R O W O

Datasheet	SPM 8000TL-HU	SPM 10000TL-HU
Input data (DC)		
Max. recommended PV power (for module STC)	16000W	20000W
Max. input power for single MPPT	8000W+8000W+8000W	8000W+8000W+15000W
Max. DC voltage	600V	600V
Start voltage	120V	120V
MPP voltage range	150-500V/370V	150-550V/370V
No. of MPP trackers	3	3
No. of PV strings per MPP tracker	1	2
Max. input current per MPP tracker	16A	16A+16A+32A
Max. short-circuit current per MPP tracker	22A	22A+22A+40A
AC input data (AC)		
Nominal AC input power	8000W	9999W
Nominal input voltage	230V	230V
Nominal input current	34.8A	43.4A
Max. grid passthrough power	12000W	15000W
Max. generator input power	8000W	9999W
Output data (AC)		
AC nominal power	8000W	9999W
Max. AC apparent power	8000VA	9999VA
Nominal AC voltage (range*)	230V	230V
AC grid frequency (range*)	50Hz	50Hz
Max. output current	40A	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	165A	200A
Continuous charging and discharging power	8000W	9999W
Communication protocol	CAN/RS485	
Type of battery	Lithium battery/Lead-acid battery	
Backup power (AC)		
AC nominal output power	8000W	9999W
Nominal AC output voltage	230V single phase	
Nominal AC output frequency	50Hz	
Switch time	<10ms	
Overload capability	200% Full Load@5S	
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	Yes	
Surge protection	Yes	
General data		
Max stackable number	6	
Dimensions (W / H / D)	440/883/254mm	
Weight	48.84kg	
Operating temperature range	-25°C ... +60°C with derating above 45°C	
Noise emission (typical)	≤ 60 dB(A)	
Self-Consumption	< 60 W	
Topology	Tranformerless	
Cooling	Smart cooling	
Protection degree	IP65	
Relative humidity	0~100%	
Altitude	2000m	
Display	LCD touch screen	
Interfaces: RS485/CAN/USB	Yes	
Communication	WIFI/LAN	
Warranty	10 years	
CE, G99, G100, AS 477.2:2020, AS 60947.3, CSIP-AUS		

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