

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



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+15000W	8000W+8000W+15000W
Max. DC voltage	600V	600V
Start voltage	130V	130V
MPP voltage range	150-500V/370V	150-550V/370V
No. of MPP trackers	3	3
No. of PV strings per MPP tracker	2	2
Max. input current per MPP tracker	16A+16A+32A	16A+16A+32A
Max. short-circuit current per MPP tracker	22A+22A+40A	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. 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
Nominal AC current (range*)	34.8A	43.5A
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	48V(40~60V)	
Max charging and discharging current	190A	200A
Continuous charging and discharging power	8000W	9999W
Communication protocol	CAN/RS485	
Type of battery	ALP LV Battery (ALP 5.0L-E1 / ALP 5.0L-E2), two clusters supported.	
Backup data (On-grid)		
Rated output power for backup load	14500W	
Rated output current for backup load	63A	
Backup data (Off-grid)		
AC nominal output power	8000W	9999W
Rated AC output power	8000VA	9999VA
Nominal AC output voltage	230V single phase	
Nominal AC output frequency	50Hz	
Switch time	<10ms	
Overload capability	120% Full Load@5S	
Efficiency		
Peak. efficiency	98.10%	
Europe efficiency	97.60%	
MPPT efficiency	99.90%	
Protection		
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	
Protective Class	Class I	
Overvoltage Category	BAT&PV:OVC II Mains:OVC III	
Inverter topology	Non-Isolation	
Active anti-Islanding method	Frequency shift	
General data		
Max parallel number	6	
Dimensions (W / H / D)	440/855/255.6mm	
Weight	42.5kg	
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/BLE/LAN	
Warranty	10 years	
Place of production	Made in China	
AS4777.1.2024, AS60947.3, CSIP-AUS, EN IEC61000-6-2, EN IEC 61000-6-4, EN62109-1, EN 62109-2, CEC		

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