GROWATT

SPM 3000~6000TL-HU

- UPS function, 10ms transition
- 1.5 DC/AC ratio with 2 MPPTs
- Up to 140A charging/discharging current
- Support DC-coupled, AC-coupled, AC-retrofit applications
- Type II Surge protection for DC and AC sides
- Support charge from diesel generator
- Support up to 6 units in parallel
- Support form a 400V three-phase system





POWER-ING TOMO-RROW

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Datasheet	SPM 3000TL-HU	SPM 3600TL-HU	SPM 4000TL-HU	SPM 4600TL-HU	SPM 5000TL-HU	SPM 5500TL-HU	SPM 6000TL-HU
Input data (DC)							
Max. recommended PV power (for module STC)	5500W	6400W	7000W	7900W	8500W	9250W	10000W
MAX. usable PV input power	4500W	5400W	6000W	6900W	7500W	8250W	9000W
Max. input power for single MPPT	4500W						
Max. DC voltage	600V						
Start voltage	130V						
MPPT voltage range	150V-550V						
No. of MPP trackers	2						
No. of PV strings per MPP tracker	1						
Max. input current per MPP tracker	22A						
Max. short-circuit current per MPP tracker	27.5A						
AC input data (AC)							
Nominal AC input power	3000W	3600W	4000W	4600W	5000W	5500W	6000W
Nominal input voltage	220V/230V/240V						
Nominal input current	13.1A	15.7A	17.4A	20A	21.8A	24A	26.1A
Max. grid passthrough current	16.6A	20A	22.2A	25.5A	27.7A	30.5A	33.3A
Max. generator input power	9200W						
Output data (AC)							
AC nominal power	3000W	3600W	4000W	4600W	5000W	5500W	6000W
Max. AC apparent power	3000VA	3600VA	4000VA	4600VA	5000VA	5500VA	6000VA
Nominal AC voltage (range*)	220V/230V/240V						
AC grid frequency (range*)	50Hz/60Hz						
Max. output current	13.1A	15.7A	17.4A	20A	21.8A	24A	26.1A
Adjustable power factor	0.8leading…0.8lagging						
THDi	<3%						
Battery data (DC)							
Battery voltage range	40~60V						
Max charging and discharging current	70A	90A	100A	110A	120A	130A	140A
Continuous charging and discharging power	3000W	3600W	4000W	4600W	5000W	5500W	6000W
Type of battery	Lithium battery/Lead-acid battery						
Backup power (AC)							
AC nominal output power	3000W	3600W	4000W	4600W	5000W	5500W	6000W
Nominal AC output voltage	230V single phase						
Nominal AC output frequency	50/60Hz						
Switch time	<10ms						
Overload capability	200% Full Load@5S						
Efficiency							
Peak. efficiency	98.10%						
Europe efficiency	97.60%						
MPPT efficiency	99.00%						
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						
Surge protection	DC Type Ⅱ / AC Type Ⅱ						
General data							
Max stackable number	6						
Dimensions (W / H / D)	330/580/232mm						
Weight	26kg						
Operating temperature range	-25~60℃, >45℃ Derating						
Noise emission (typical)	≤ 30 dB(A)						
Self-Consumption	< 60 W						
Topology	Tranformerless						
Cooling	Natural						
Protection degree	IP65						
Relative humidity	0~100%						
Altitude	< 2000m						
Display	LCD touch screen						
Interfaces: RS485/CAN/USB	Yes						
Communication	WIFI/LAN						
Warranty	10 years						
EN50549，CE-EMC, CE-LVD, IEC62116, IEC61727							

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