

SPH 10000TL-HU-US

- UPS function, 10ms transition
- 1.5 DC/AC Ratio with 3 Mppts
- Up to 200A 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 220V or 208V three-phase system



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

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Datasheet		SPH 10000TL- HU-US
Input data (DC)		
Max. recommended PV power (for module STC)		15000W
Max. input power for single MPPT		10000W
Max. DC voltage		525V
Startup voltage		150V
MPP voltage range		150V-450V/370V
No. of MPP trackers		3
No. of PV strings per MPP tracker		2
Max. input current per MPP tracker		22A
Max. short-circuit current per MPP tracker		27A
AC input data (AC)		
Nominal AC input power		10000W
Nominal input voltage		240V
Nominal input current		41.67A
Output data (AC)		
AC nominal power		10000W
Max. AC apparent power		10000VA
Nominal AC voltage (range*)		230V, 120V/240V Split (180Vac - 280Vac)
AC grid frequency (range*)		50Hz/60Hz
Max. output current		50A
Adjustable power factor		1.0leading...1.0lagging
THDi		<3%
AC grid connection type		L1/L2/N/PE
Battery data (DC)		
Battery voltage range		40~60V
Max charging and discharging current		200A
Continuous charging and discharging power		10000W
Communication protocol		CAN/RS485
Type of battery		Lithium /Lead-acid
Backup power (AC)		
AC nominal output power		10000W
Nominal AC output voltage		230V, 120V/240V Split
Nominal AC output frequency		50/60Hz
Switch time		<10ms
Overload capability		13000W for 5 s
Efficiency		
Peak efficiency		97.50%
CEC weighted efficiency		97%
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		DC Type II/AC Type II
General data		
Dimensions (W / H / D)		440/855/256mm (17.32/28.34/9.44) inches
Weight		48.84kg/107.8lbs
Operating temperature range		-25°C ... +60°C (-13...+140°F) with derating above 45°C /113°F
Noise emission (typical)		≤ 30 dB(A)
Max. grid passthrough current		62.5A
Max. generator input power		10000W
Max stackable number		6
RSD transmitter		Tigo/APsmart
Self-consumption		< 60 W
Topology		Transformerless
Cooling		Smart cooling
Protection degree		IP65/NEMA 4
Relative humidity		0~100%
Altitude		2000m
DC connection		Quick connector
Display		LCD
Interfaces: RS485/CAN/USB		Yes
Communication		WiFi/4G cellular (Opt)
Warranty		10 years

IEEE1547, CA RULE21, RULE14(HECO Compliant), UL1741, UL1741SA/SB, CSA C22.2, PREPA, UL1699B, UL1741 CRD, IEC62109-1, IEC62109-2, FCC Part15 Class B, Sunspec

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