

# 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



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T O M O R R O W

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Datasheet		SPH 10000TL- HU-US
<b>Input data (DC)</b>		
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
<b>AC input data (AC)</b>		
Nominal AC input power		10000W
Nominal input voltage		240V
Nominal input current		41.67A
<b>Output data (AC)</b>		
AC nominal power		10000W
Max. AC apparent power		10000VA
Nominal AC voltage (range*)		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
<b>Battery data (DC)</b>		
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
<b>Backup power (AC)</b>		
AC nominal output power		10000W
Nominal AC output voltage		120V/240V Split
Nominal AC output frequency		50/60Hz
Switch time		<10ms
Overload capability		13000W for 5 s
<b>Efficiency</b>		
Peak efficiency		97.50%
CEC weighted efficiency		97%
MPPT efficiency		≥99.5%
<b>Protection devices</b>		
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
<b>General data</b>		
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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