

SPH 8000-10000TL-HU-US

- UPS function, 10ms transition
- 1.5DC/ACRatiowith3MPPTs
- 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 R O W

Datasheet	SPH 8000TL-HU-US(B)	SPH 10000TL-HU-US	SPH 10000TL-HU-US (B)
Input data (DC)			
Max. recommended PV power (for module STC)		15000W	
Max. input power for single MPPT		10000W	
Max. DC voltage		525V	
Startup voltage		130V	
MPPT 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	8000W		10000W
Nominal input voltage		240V	
Nominal input current	33.33A		41.67A
Max. grid passthrough current		62.5A	
Max. generator input power	8000W		10000W
Output data (AC)			
AC nominal power	8000W		10000W
Max. AC apparent power	8000VA		10000VA
Nominal AC voltage (range*)		120V/208V, 120V/240V Split (180Vac - 280Vac)	
AC grid frequency (range*)		50Hz/60Hz	
Max. output current	40A		50A
Adjustable power factor		0.8leading...0.8lagging	
THDi		<3%	
AC grid connection type		L1/L2/N/PE	
Battery data (DC)			
Battery voltage range		40~60V	
Max charging and discharging current	190A		200A
Continuous charging and discharging power	8000W		10000W
Communication protocol		CAN/RS485	
Type of battery		Lithium /Lead-acid (Check third-party battery compatibility in the Approved Battery List)	
Backup power (AC)			
AC nominal output power	8000W		10000W
Nominal AC output voltage		120/208V, 120V/240V Split	
Nominal AC output frequency		50/60Hz	
Switch time		<10ms	
Overload capability		1.5 times of rated power, 5s	
Efficiency			
Peak efficiency		98.1%	
CEC weighted efficiency		97%	
MPPT efficiency		≥99.9%	
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			
Max stackable number		6	
Dimensions (W / H / D)		457/874/256mm (17.99/34.41/10.08) inches	
Weight		42.5kg/93.7lbs	
Operating temperature range		-25°C ... +60°C (-13...+140°F) with derating above 45°C /113°F	
Noise emission (typical)		≤ 30 dB(A)	
RSD transmitter		Tigo/APsmart	
Built-in breaker spec	BAT side: 80V/250A, Grid side: 400V/100A, GEN side: 400V/63A, LOAD side: 400V/100A.	/	BAT side: 80V/250A, Grid side: 400V/100A, GEN side: 400V/63A, LOAD side: 400V/100A.
Self-consumption		< 60 W	
Topology		Transformerless	
Cooling		Smart cooling	
Protection degree		IP65/NEMA 4	
Relative humidity		0~100%	
Altitude		2000m	
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, FCC Part15 Class B, Sunspec, RoHS, PVRSS, CEC, IEEE2030.5, OpenADR, UL9540

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