

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 O
T O M O -
R R O W O

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)	≤ 60 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.		/	
Self-consumption	< 60 W			
Topology	Tranformerless			
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, CSA C22.3				

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