

# 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 both single phase and split phase application



**GROWATT**

[www.ginverter.com](http://www.ginverter.com)

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

# Datasheet

SPH 10000TL- HU-US

## Input data (DC)

Max. recommended PV power (for module STC)	15000W
Max. DC voltage	525V
Start 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

## 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	Single /Split phase

## Battery data (DC)

Battery voltage range	40~60V
Max charging and discharging current	200A
Continuous charging and discharging power	10000W
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

## 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)
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(5/10 years)	Yes/Opt

IEEEE1547, CA RULE21, RULE14(HECO Compliant), UL1741, UL1741SA/SB, CSA C22.2, PREPA, UL1699B, UL1741 CRD, IEC62109-1, IEC62109-2,FCC Part15 Class B, Sunspec

\* 2023 SHENZHEN GROWATT NEW ENERGY CO.,LTD All rights reserved. Subject to change without notice.