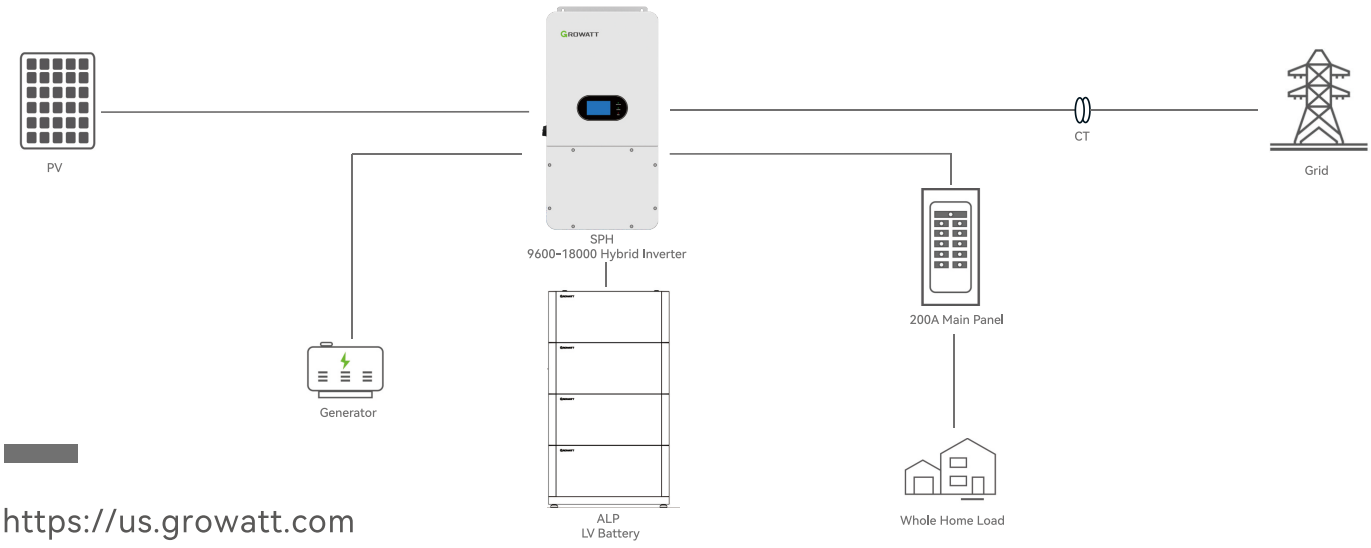
GROWATT

SPH 9600-18000TL-HU-US

- UPS function, 10ms transition
- 2.0 DC/AC ratio with 3 MPPTs
- Support DC-coupled, AC-coupled, AC-retrofit applications
- Type II Surge protection for DC and AC side
- Support charge from diesel generator
- Support up to 6 units in parallel
- Support form a 208 or 220 V three-phase system



SPH Whole Home Backup



https://us.growatt.com

Datasheet	SPH 9600TL -HU-US	SPH 11500TL -HU-US	SPH 15000TL -HU-US	SPH 18000TL -HU-US
Input data (DC)				
Max. recommended PV power (for module STC)	19200W	23000W	30000W	36000W
Max. input power for single MPPT	12000W			
Max. DC voltage	550V			
Startup voltage	100V			
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	40A			
Max. short-circuit current per MPP tracker	50A			
AC input data (AC)				
Nominal AC input power	9600W	11500W	15000W	18000W
Nominal input voltage	120/240V			
Nominal input current	40A	47.9A	62.5A	75A
Max. grid passthrough current	200A			
Max. generator input power	30000W			
Output data (AC)				
AC nominal power	9600W	11500W	15000W	18000W
Max. AC apparent power	9600VA	11500VA	15000VA	18000VA
Nominal AC voltage (range*)	120V/208V, 120V/240V Split (180Vac - 280Vac)			
AC grid frequency (range*)	60Hz			
Max. output current	40A	47.9A	62.5A	75A
Adjustable power factor	0.8 leading.....0.8 lagging			
THDi	<3%			
AC grid connection type	L1,L2,N,PE			
Battery data (DC)				
Battery voltage range	40~60V			
Max charging and discharging current	200A	240A	312.5A	334A
Continuous charging and discharging power	9600W	11500W	15000W	18000W
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	9600W	11500W	15000W	18000W
Nominal AC output voltage	120V/208V, 120V/240V Split			
Nominal AC output frequency	60Hz			
Switch time	<10ms			
Overload capability	200% Full Load@10S			
Efficiency				
Peak efficiency	98.10%			
CEC efficiency	97.00%			
MPPT efficiency	99.90%			
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	Yes			
General data				
Max stackable number	6			
Dimensions(W/H/D)	516/870/308.8mm (20.31/34.25/12.16inches)			
Weight	Gross Weight: 74 kg / 163.1 lb Net Weight: 63 kg / 138.9 lb			
Operating temperature range	-25~60℃, >45℃ Derating			
Noise emission (typical)	≤ 50 dB			
Topology	BAT side: 80V/200A*2/Load side: 250V/200A/GEN: 240V/125A			
Cooling	Smart cooling			
Protection degree	IP65			
Relative humidity	0-100%			
Altitude	< 2000m			
Display	LCD touch screen			
Interfaces: RS485/CAN/USB	Yes			
Communication	WIFI/LAN			
Warranty	10 years			
IEEE1547, CA RULE21, RULE14(HECO Compliant), UL1741, UL1741SA/SB, CSA C22.2, CSA C22.3 PREPA, UL1699B, UL3141, FCC Part15 Class B, Sunspec				

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