SPH 10K vs SPH 18K

Key Specs / Use Cases / Line Diagrams



SPH 8000-10000TL-HU-US

VS



SPH 9600-18000TL-HU-US

Use Cases | SPH 8-10K

- Partial home backup with smart meter and sub panel
- Small to mid size homes on a budget LV battery
- AC retrofit of existing PV systems
- Off-grid and rural sites with a generator

Use Cases | SPH 9.6-18K

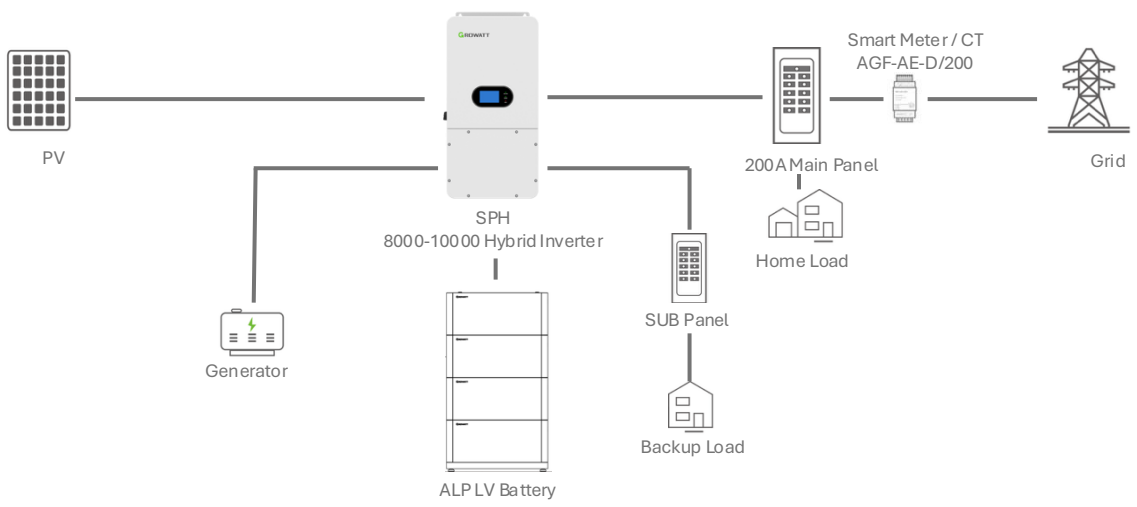
- Whole home backup with 200A passthrough built in
- Large homes and high PV arrays up to 36kW
- Big generators (30kW) for ranch and rural sites
- Parallel systems for small commercial and ag

Key Specs

	SPH 8-10K	SPH 9.6-18K
Continuous output	8 / 10kW	9.6 / 11.5 / 15 / 18kW
AC voltage	120/240V or 120/208V split phase	120/240V or 120/208V split phase
Battery	48V low voltage (40-60V)	48V low voltage (40-60V)
Max battery current	190 / 200A	200 / 240 / 312.5 / 334A
Max recommended PV	12/15kW	19.2 - 36kW
MPPTs	3, 2 strings each	3, 2 strings each
Max current per MPPT	22A (27A Isc)	40A (50A Isc)
Startup voltage	130V	100V
Grid passthrough	62.5A	200A
Generator input	8 / 10kW	30kW
Backup switch time	<10ms UPS	<10ms UPS
Overload	150% for 5s	200% for 10s
Parallel	Up to 6, 208/220V three phase capable	Up to 6, 208/220V three phase capable
Battery type	Lithium or lead acid	Lithium or lead acid
Display / comms	LCD, Wi-Fi or 4G (optional)	LCD, Wi-Fi or 4G (optional)
Typical install	Partial home + sub panel, no external ATS	Whole home, no external ATS
Warranty	10 years.	10 years

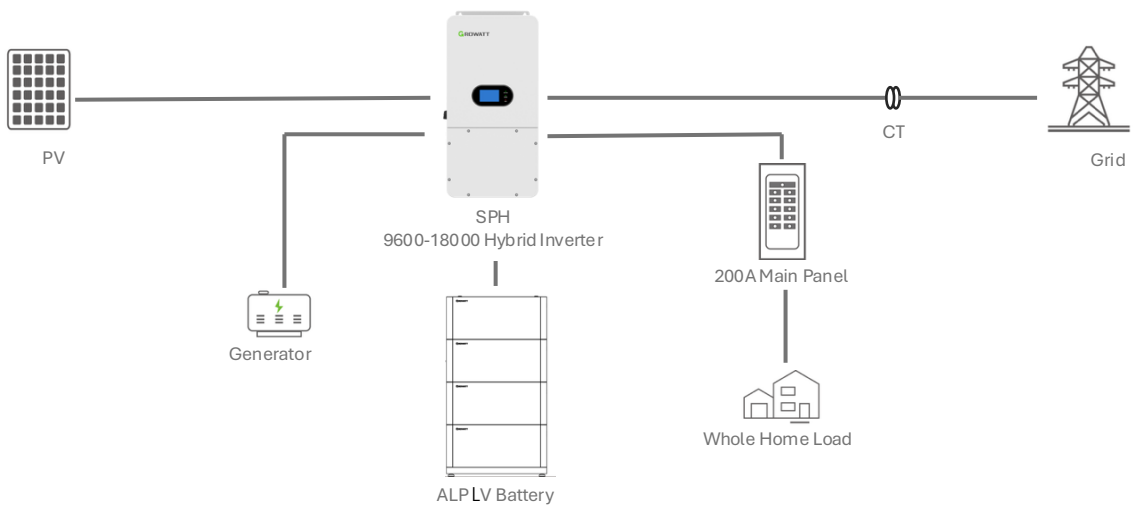
System Diagrams

SPH 8-10K Partial Home Backup



- Smart meter / CT on the main panel feed
- Critical loads moved to a backup sub panel
- ALP LV battery, DC coupled
- Generator input up to 10kW
- No external ATS needed

SPH 9.6-18K Whole Home Backup



- 200A grid passthrough feeds the main panel
- CT on the grid feed
- ALP LV battery, DC coupled
- Generator input up to 30kW
- No Smart Meter needed
- No external ATS needed