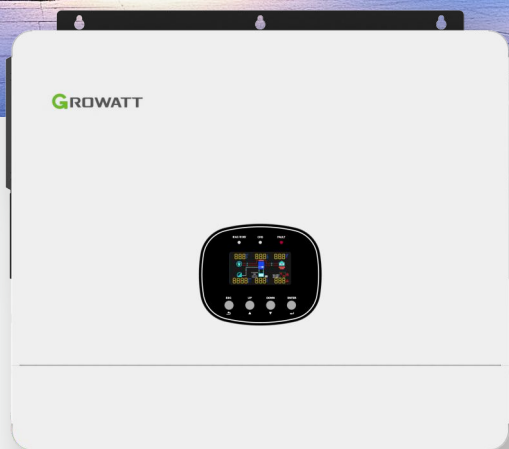


SPE 6000-12000US

- 1.5 DC/AC ratio
- Dual MPPT trackers, max. MPPT input current up to 27A
- Max. PV input voltage up to 550Vdc
- Support charge from diesel generator
- Support smart load connection
- Support up to 9 units in parallel
- Support to form a 220V or 208V three-phase system
- Max. grid passthrough power up to 70A



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

Preliminary Version

Datasheet	SPE 6000 US	SPE 8000 US	SPE 10000 US	SPE 12000 US
Input data (DC)				
Max. recommended PV power (for module STC)	9000W	12000W	15000W	18000W
Max. input power for single MPPT	4500W per MPPT	6000W per MPPT	7500W per MPPT	9000W per MPPT
Max. DC voltage			550Vdc	
Startup voltage			120Vdc	
MPPT voltage range			60-480Vdc	
No. of MPP trackers			2	
No. of PV strings per MPP tracker			2	
Max. input current per MPP tracker			27A	
Max. short-circuit current per MPP tracker			34A	
AC input data (AC)				
Nominal AC input power			16800W	
Nominal input voltage			120/240Vac	
Nominal input current			70A	
Max. grid passthrough power			70A	
Max. generator input power			70A	
Output data (AC)				
AC nominal power	6000W	8000W	10000W	12000W
Max. AC apparent power	6000VA	8000VA	10000W	12000VA
Nominal AC voltage (range*)			120/240Vac (195-255Vac)	
AC grid frequency (range*)			60Hz (58.3~61.7Hz)	
Max. output current	25A	33.4A	41.7A	50A
Adjustable power factor			0.8 leading.....0.8 lagging	
THDi			<5%	
AC grid connection type			L1/L2/N/PE	
Battery data (DC)				
Battery voltage range			46 – 60 VDC (Lithium) 38.4 – 60 VDC (Lead-acid)	
Max charging and discharging current	140A/140A	190A/187A	220A/234A	250A/280A
Continuous charging and discharging power	6000W	8000W	10000W	12000W
Communication protocol			CAN/RS485	
Type of battery			Lithium and Lead-acid	
Backup power (AC)				
AC nominal output power	6000W	8000W	10000W	12000W
Nominal AC output voltage			120/240Vac	
Nominal AC output frequency			60Hz	
Switch time			≤20ms Single /≤30ms Parallel	
Overload capability			10sec, @104-120% Load; 5sec, @>120% Load	
Efficiency				
Peak efficiency			96.50%	
CEC efficiency			94.50%	
MPPT efficiency			99%	
Protection devices				
AC over current protection			Yes	
AC over voltage protection			Yes	
Ground fault monitoring			Yes	
Anti-islanding protection			Yes	
Residual-current monitoring unit			Yes	
Insulation resistance monitoring			Yes	
Surge protection			Yes	
General data				
Max stackable number			9	
Dimensions (W / H / D)			550/465/150mm	
Weight			21.5kg	
Operating temperature range			-10°C ~ 50°C	
Noise emission (typical)			<75dB	
Self-consumption			w/ PV (<65W) w/ Battery (~75W) w/ AC (<75W)	
Topology			Transformer Less	
Cooling			DC Fan	
Protection degree			IP20	
Relative humidity			5% ~ 95%	
Altitude			< 2000m	
Display			LCD+LED	
Interfaces: RS485/CAN/USB			Yes	
Communication			WiFi	
Warranty			5-year standard warranty	
UL1741, FCC				