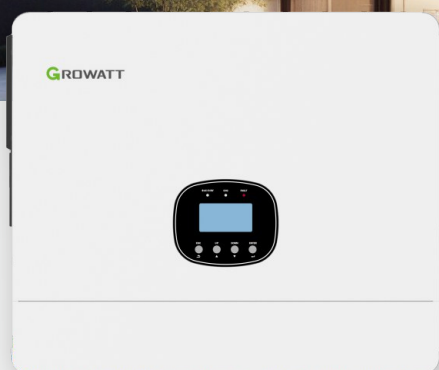


# SPE 8000~12000 ES

Hybrid solar inverter

- Dual MPP trackers
- Maximum PV input voltage up to 550VDC
- Two AC input terminals with integrated transfer switch
- Featuring grid-tied function for peak shaving
- Support parallel operation for capacity expansion up to 108kW.
- Dual outputs for smart load management



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

Datasheet	SPE 8000 ES		SPE 10000 ES		SPE 12000 ES	
Input data (DC)						
Max. recommended PV power (for module STC)	10000W		12500W		15000W	
Max. DC voltage			550V			
Start voltage			120V			
MPP voltage range			60V-480V			
No. of MPP trackers			2			
No. of PV strings per MPP tracker			1			
Max. input current per MPP tracker			27A			
Output data (AC)						
AC nominal power	8000W		10000W		12000W	
Max. AC apparent power	8000VA		10000VA		12000VA	
Nominal AC voltage			230V			
AC grid frequency			50/60Hz			
Output current	34.8A		43.5A		52.2A	
Adjustable power factor			0.8leading...0.8lagging			
THDi			< 5%			
Max. conversion efficiency (PV/AC)			96.5%			
European efficiency @ vnominal (PV/AC)			95.5%			
Battery data (DC)						
Nominal DC voltage			48V			
Max charging and discharging current	190A/200A		220A/240A		250A/280A	
Type of battery			Lithium/Lead-acid			
Backup power (AC)						
AC nominal output power	8000W		10000W		12000W	
Nominal AC output voltage			230V			
Nominal AC output frequency			50/60Hz			
Switch time			<20ms@Single<30ms@Parallel			
Efficiency						
Peak. efficiency			96.5%			
European efficiency			95.5%			
Protection devices						
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			
Surge protection			Yes			
General data						
Dimensions (W / H / D)			550/465/150mm			
Weight			21.5kg			
Operating temperature range			-10°C ... +50°C			
Noise emission (typical)			< 75dB			
Self-consumption			< 75W			
Topology			Tranformerless			
Cooling			DC fan			
Protection degree			IP20			
Relative humidity			5%~95% non-condensing			
Altitude			< 2000m			
Communication			WiFi/4G			
CE, NRS097						