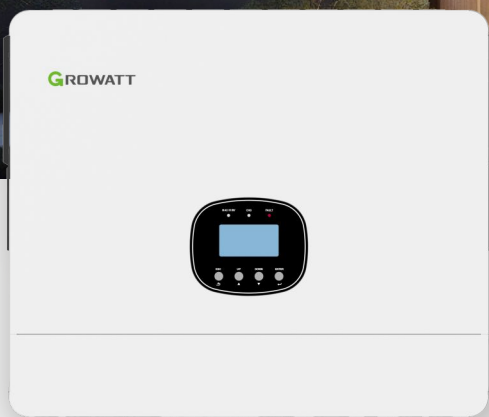


# SPE 8000~12000 ES

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



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Datasheet	SPE 8000 ES	SPE 10000 ES	SPE 12000 ES
<b>Input data (DC)</b>			
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	
<b>Output data (AC)</b>			
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%	
<b>Battery data (DC)</b>			
Nominal DC voltage		48V	
Max charging and discharging current	190A/200A	220A/240A	250A/280A
Type of battery		Lithium/Lead-acid	
<b>Backup power (AC)</b>			
AC nominal output power	8000W	10000W	12000W
Nominal AC output voltage		230V	
Nominal AC output frequency		50/60Hz	
Switch time		<20ms@Single <30ms@Parallel	
<b>Efficiency</b>			
Peak. efficiency		96.5%	
European efficiency		95.5%	
<b>General data</b>			
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			