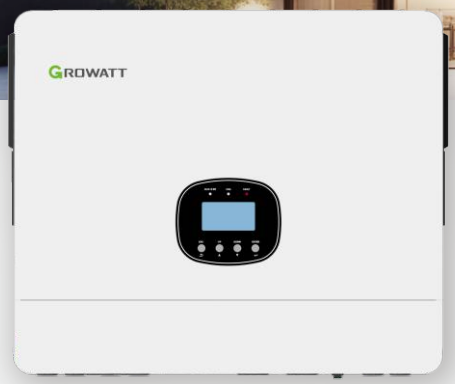
GROWATT

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





POWER-ING TOMO-RROW

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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	
Max. short-circuit current per MPP trackers		34A	
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%	
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	

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