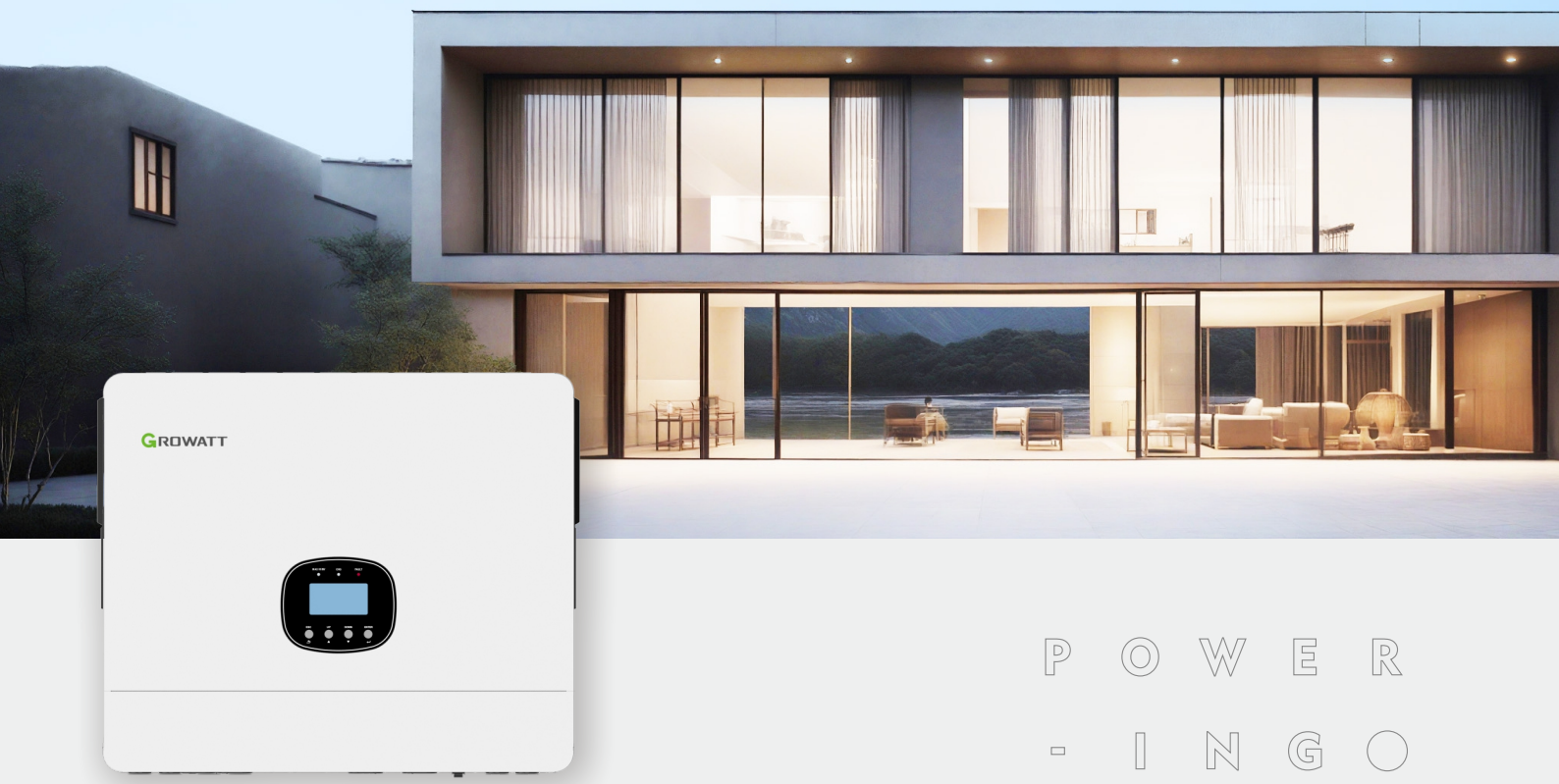
SPE 12000 ES

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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preliminary

Datasheet	SPE 12000 ES
Input data (DC)	
Max. recommended PV power (for module STC)	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	2
Max. input current per MPP tracker	27A
Output data (AC)	
AC nominal power	12000W
Max. AC apparent power	12000VA
Nominal AC voltage	230V
AC grid frequency	50/60Hz
Output current	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	250A/280A
Type of battery	Lithium/Lead-acid
Backup power (AC)	
AC nominal output power	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)	550/465/149.8mm
Weight	21.5kg
Operating temperature range	–10℃ ... +50℃
Noise emission (typical)	< 70dB
Self-consumption	< 70W
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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