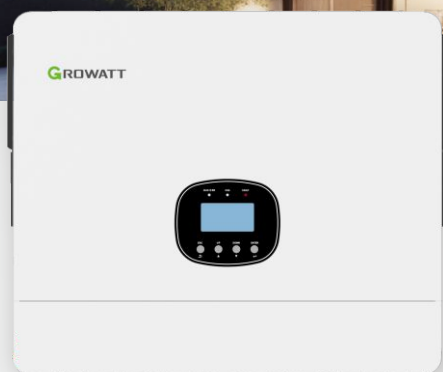


# SPE 8000~12000 ES

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<br><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)                   |             | < 30dB*                        |              |
| Self-consumption                           |             | < 75W                          |              |
| Topology                                   |             | Tranformerless                 |              |
| Cooling                                    |             | DC fan                         |              |
| Protection degree                          |             | IP20                           |              |
| Relative humidity                          |             | 5%~95% non-condensing          |              |
| Altitude                                   |             | < 2000m                        |              |
| Communication                              |             | WiFi/4G                        |              |
| CE, NRS097                                 |             |                                |              |

\*Under special working condition.