



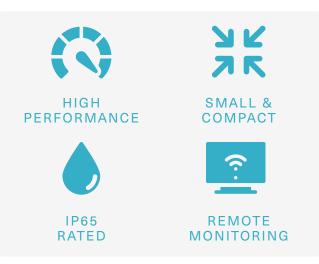
FORCE S SERIES

SINGLE PHASE GRID-TIED INVERTERS

Sleek, reliable and compact, the *Energizer*® Force S Series inverters are precision engineered to provide maximum performance, efficiency and longevity.

The Force S Series has 2 power options available in 8kW and 10kW making them a suitable choice for mid-power sized solar ecosystems.





High Performance Three-MPPT Inverters

- Three-MPPT design with precise MPPT algorithm
- 97.4% maximum efficiency
- IP65 rated
- Optional export control
- Compact design
- RS485, Wi-Fi, LAN, GPRS (optional) communications
- High voltage range/low start-up voltage
- Android and iPhone apps available
- 10 + 2 years full warranty

Energizer.

| SOLAR INVERTERS | | 85-105 | |
|--|---|------------------|--|
| MODEL INPUT | 8S | 10S | |
| PVINPUT | | | |
| Max Recommended DC Power [W] | 12000 | 15000 | |
| Max. DC Voltage [V] | 600 | | |
| Nominal DC Operating Voltage [V] | 360 | | |
| Max. Input Current [A] | 14 | | |
| Max. Short Circuit Current [A] | 18 | | |
| | | | |
| MPPT Voltage Tange [Vdc] | 80-550 | | |
| Start-up Voltage [V] | 120 | | |
| No. of MPP Trackers | 3 | | |
| Strings Per MPP Tracker | 1 | | |
| OUTPUT | 8S | 10S | |
| AC | | | |
| Nominal AC Power [W] | 8000 | 10000 | |
| Max. Apparent AC Power [VA] | 8800 | 10500 | |
| Rated Grid Voltage [Vac] | 220 / 230 / 240 | | |
| Rated Grid Frequency [Hz] | | 50/60, ±5 | |
| Nominal AC Current [A] | 34.8 | 43.5 | |
| Max. AC Current [A] | 38.3 | 45.7 | |
| Displacement Power Factor | 1 (adjustable from 0.8 leading to 0.8 lagging) | | |
| Total Harmonic Distortion (THDi, Nominal output) | | | |
| Iotal Harmonic Distortion (THDI, Nominal output) | NJ 70 | | |
| EFFICIENCY | 8S | 10S | |
| | 99.00% | 99.00% | |
| Max. MPPT Efficiency | 97.40% | 97.40% | |
| Max. Euro Efficiency | | | |
| Max. Efficiency | 97.80% | 97.80% | |
| PROTECTION | 8S | 10S | |
| DC Reverse-Polarity Protection | YES | | |
| | YES | | |
| Anti-Islanding Protection | YES | | |
| Insulation Monitoring | | | |
| Residual Current Monitoring | YES | | |
| AC Short Circuit Protection | YES | | |
| AC Outout Over Current Protection | YES | | |
| AC Outout Over Voltage Protection | YES | | |
| Arc Fault Protection | Optional | | |
| DC SPD Protection | Type II (optional) | | |
| AC SPD Protection | Type II (optional) | | |
| Temperature Protection | YES | | |
| Integrated DC Switch | NO | | |
| | 20 | 400 | |
| STANDARD | 8S | 10S | |
| Safety | IEC 62109-1/2 | | |
| EMC | IEC 610000-6-1/2/3 | | |
| Certification | RD1699 / EN50549-1 / ABNT NBR 16149 / AB AS/NZS 4777.2:2020 / VDE-AR-N 410 | | |
| | AGINES 4111.2.2020 / VDE-AK-N 410 | 3.20107 0307 033 | |
| GENERAL DATA | 8S | 10S | |
| Dimensions (WxHxD) [mm] | 380*440*167 | | |
| Net Weight [kg] | 19 | | |
| Cooling Concept | Natural | | |
| Ingress Protection (according to IEC60529) | IP65 | | |
| Topology | Transformerless | | |
| Over Voltage Category | III (AC side), II (PV side) | | |
| Noise Emission (typical) [dB] | <30 | | |
| Operating Temperature Range | -25 to +60°C (derating at +45°C) | | |
| | | | |
| Storage Temperature Range | -40 to $+70^{\circ}$ C | | |
| Humidity | 0-100% (no condensation) | | |
| Self Consumption (night) [W] | <1W | | |
| Monitoring Module | WIFI / 4G (Optional) | | |
| Communication | RS485, Meter/CT, DRM | | |
| Display | LCD Panel / Touch Key / iOS App / Android App / Web Portal | | |
| Warranty | 10 Years Full Warranty + 2 Years Parts Only Warranty | | |
| | | | |

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