



Force S Series Single Phase Grid-Tied Inverters

7kW ~ 10.5kW

EUROPEAN VERSION



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 5 power options available in 7kW to 10.5kW making them a suitable choice for mid-power sized solar ecosystems.

High Performance Dual-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 years warranty



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**Small
& Compact****High
Performance****IP65
Rated****Remote
Monitoring**

MODEL INPUT	Force 7S	Force 8S	Force 9S	Force 10S	Force 10.5S
PV INPUT					
Max. Input Power [W]	10500	12000	13500	15000	15750
Max. Input Voltage [V]	600	600	600	600	600
Start-up Input Voltage [V]	120	120	120	120	120
Rated Input Voltage [V]	360	360	360	360	360
MPPT Operating Voltage Range [V]	80-550				
Max. Input Current [A]	14				
Max. Short-circuit Current [A]	18				
No. of MPP Trackers	3				
No. of strings per MPPT	1				
AC OUTPUT					
Rated Output Power [W]	7000	8000	9000	10000	10500
Max. Apparent AC Power [VA]	7700	8800	9900	10500	10500
Rated Grid Voltage [V]	220 / 230 / 240				
Rated Grid Frequency [Hz]	50/60				
Rated Output Current [A]	31.8	36.4	40.9	45.5	47.7
Max. Output Current [A]	35.0	40.0	45.0	47.7	47.7
Displacement Power Factor	1 (adjustable from 0.8 leading to 0.8 lagging)				
Total Harmonic Distortion (THDi, Nominal output)	<3%				
EFFICIENCY					
Max. MPPT Efficiency	99.00%	99.00%	99.00%	99.00%	99.00%
Max. Euro Efficiency	97.40%	97.40%	97.40%	97.40%	97.40%
Max. Efficiency	97.80%	97.80%	97.80%	97.80%	97.80%
PROTECTION					
DC Reverse-Polarity Protection	YES				
Anti-Islanding Protection	YES				
Insulation Monitoring	YES				
Residual Current Monitoring	YES				
AC Short Circuit Protection	YES				
AC Output Over Current Protection	YES				
AC Output Over Voltage Protection	YES				
Temperature Protection	YES				
Integrated DC Switch	Optional				
STANDARD					
Safety	IEC 62109-1/2				
EMC	IEC 61000-6-1 / IEC 61000-6-2 / IEC 61000-6-3				
Certification	AS/NZS 4777.2:2020 / G98-1 / G99-1 / EN50549-1 / IEC 61727				
GENERAL DATA					
Dimensions (WxHxD) [mm]	440 * 380 * 167				
Net Weight [kg]	19				
Cooling Concept	Natural Convection				
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°C				
Humidity	0-100% (no condensation)				
Self Consumption (night) [W]	<1W				
Monitoring Module	LAN/ WIFI / GPRS / 4G (Optional)				
Communication	RS485, Meter / CT, DRM				
Display	LCD Panel / Touch Key / iOS App / Android App / Web Portal				
Warranty	10 Years Full Warranty				
Country of Manufacture	China				