

Energizer®

SOLAR INVERTERS



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



Small &
Compact



IP65
Rated



Remote
Monitoring

High Performance Three-MPPT Inverters

Force 8S, 10S

- Three-MPPT design with precise MPPT algorithm
- 97.4% max. efficiency
- IP65 rated
- Optional export control
- Compact design
- RS485, Wi-Fi, LAN, GPRS (optional) communications
- High voltage range / low start-up voltage
- Android & iPhone apps available



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MODEL INPUT	8S	10S
PV		
Max. Recommended DC Power [W]	12000	15000
Max. DC Voltage [V]	600	600
Nominal DC Operating Voltage [V]	360	360
Max. Input Current (input A/input B) [A]	14 / 14	14 / 14
Max. Short Circuit Current (input A/input B) [A]	18 / 18	18 / 18
MPPT Voltage Range [Vdc]	80-550	80-550
Start-up Voltage [V]	120	120
No. of MPP Trackers	3	3
Strings Per MPP Tracker	1	1
OUTPUT		
AC		
Nominal AC Power [W]	8000	10000
Max. Apparent AC Power [VA]	8800	10500
Rated Grid Voltage [Vac]	220 / 230 / 240	220 / 230 / 240
Rated Grid Frequency [Hz]	50 / 60, ±5	50 / 60, ±5
Nominal AC Current [A]	36.4	45.5
Max. AC Current [A]	40.0	47.7
Displacement Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)	
Total Harmonic Distortion (THDi, Nominal output)	<3%	<3%
EFFICIENCY		
Max. MPPT Efficiency	99.00%	99.00%
Max. Euro-Efficiency	97.40%	97.40%
Max. Efficiency	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	
Arc Fault Protection	Optional	
DC SPD Protection	Type II (optional)	
AC SPD Protection	Type II (optional)	
Temperature Protection	YES	
Integrated DC Switch	YES	
STANDARD		
Safety	IEC 62109-1/2	
EMC	IEC 610000-6-1/2/3	
Certification	RD1699 / EN50549-1 / ABNT NBR 16149 / ABNT NBR 16150/IEC62116 / AS/NZS 4777.2:2015 / VDE-AR-N 4105:2018 / G98 / G99	
GENERAL DATA		
Dimensions (WxHxD) [mm]	440*380*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°C	
Humidity	0 - 100% (no condensation)	
Self Consumption (night) [W]	<1W	
Monitoring Module	Wi-Fi, LAN, GPRS (optional)	
Communication	Meter, CT, DRM, USB update, RS485	
Display	LCD Panel / Touch Key / iOS App / Android App / Web Portal	
Warranty	10 Years Full Warranty + 2 Years Parts Only Warranty	