

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

- 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

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MODEL INPUT	8S	10S
PV INPUT		
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		
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)	<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 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
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 4777.2:2020 / VDE-AR-N 4105:2018 / G98 / G99	
GENERAL DATA		
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°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	