

Energizer®

SOLAR INVERTERS

FORCE SERIES GRID-TIED INVERTERS

The ideal way to complete a home energy ecosystem is with the Energizer® Force solar inverter.

Sleek, reliable and compact, the Energizer® Force efficiently converts direct current (DC) output from solar panels into alternating current (AC), so it can be stored in a battery system or used to power and operate a home.

Engineered using high quality components, our range spans from 3.0-6.0kW to suit any residential solar set-up.



High
Performance



Small &
Compact



IP65
Rated



Remote
Monitoring

High Performance Dual-MPPT Inverters

Force 3S, 3.6S, 4.6S, 5S, 6S

- Dual-MPPT design with precise MPPT algorithm
- 97.2% max. efficiency
- IP65 rated
- Optional export control
- Compact & lightweight
- RS485, WiFi / LAN / GPRS (optional) communications
- Wide voltage range / low start-up voltage
- Android & iPhone apps available



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MODEL INPUT	3S	3.6S	4.6S	5S	6S
PV					
Max. DC Voltage [V]	600	600	600	600	600
Nominal DC Operating Voltage [V]	360	360	360	360	360
Max. Input Current (input A/input B) [A]	12.5 / 12.5				
Max. Short Circuit Current (input A/input B) [A]	15 / 15				
MPPT Voltage Range [Vdc]	80-550	80-550	80-550	80-550	80-550
Start-up Voltage [V]	120	120	120	120	120
No. of MPP Trackers	2	2	2	2	2
Strings Per MPP Tracker	1	1	1	1	1
OUTPUT					
AC					
Nominal AC Power [W]	3000	3600	4600	5000	6000
Max. Apparent AC Power [VA]	3300	3960	5060	5500	6000
Rated Grid Voltage [Vac]	220 / 230 / 240				
Rated Grid Frequency [Hz]	50 / 60, ±5				
Nominal AC Current [A]	13.0	15.7	20.0	21.7	26.1
Max. AC Current [A]	14.3	17.2	22.0	23.9	26.1
Displacement Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)				
Total Harmonic Distortion (THDi, Nominal output)	<3%	<3%	<3%	<3%	<3%
EFFICIENCY					
Max. MPPT Efficiency	99.00%	99.00%	99.00%	99.00%	99.00%
Max. Euro-Efficiency	96.80%	96.80%	96.80%	96.80%	96.80%
Max. Efficiency	97.20%	97.20%	97.20%	97.20%	97.20%
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	AS4777.2-2015 / G98-1 / G99-1 / EN50549-1 / IEC 61727				
GENERAL DATA					
Dimensions (WxHxD) [mm]	402*476.5*148				
Net Weight [kg]	15.5				
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	-20 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 (optional)	External WIFI / 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				