

Energizer®

SOLAR INVERTERS



Force HS-AS Series

Single Phase Hybrid Inverters
Also available in AC coupled.

3kW ~ 6kW

EUROPEAN VERSION



The Energizer® Force HS Series inverter range offers advanced features and is compatible with high-voltage batteries. With the hybrid inverter range, you're able to expand your solar system by adding extra batteries.

There are 5 inverter size options and it can connect to our Powerstack with up to seven battery modules connected in series, allowing for flexible storage capacity.

High Performance Single Phase Hybrid Inverters

- Dual-MPPT design with precise MPPT algorithm
- 97.08% maximum efficiency
- IP65 rated
- Optional export control
- Compact & lightweight
- RS485, Wi-Fi, LAN, GPRS (optional) communications
- Wide 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 3.0HS	Force 3.7HS	Force 4.6HS	Force 5.0HS	Force 6.0HS
	Force 3.0AS	Force 3.7AS	Force 4.6AS	Force 5.0AS	Force 6.0AS
PV INPUT (ONLY FOR HYBRID)					
Max. Input Power [W]	4500 A: 2250 B: 2250	5500 A: 2750 B: 2750	6900 A: 3450 B: 3450	7500 A: 3750 B: 3750	9000 A: 4500 B: 4500
Max. Input Voltage [V]			600		
Start-up Input Voltage [V]			75		
Rated Input Voltage [V]			360		
MPPPT Operating Voltage Range [V]			80-550		
Max. Input Current [A]			16/16		
Max. Short-circuit Current [A]			20/20		
No. of Independent MPP Trackers			2		
No. of Strings Per MPP Tracker			1		
BATTERY CONNECTION					
Battery Type			Lithium Battery (LFP)		
Battery Voltage [V]			80-480		
Max. Charge/Discharge Current [A]			40		
Communication Interface			CAN (Communicate with Inverter), RS485 (Upgrade BMS)		
AC INPUT AND OUTPUT (GRID)					
Max. AC Input Power [VA]	6000	7680	9200	10000	12000
Max. AC Input Current (per phase)[A]	27.3	34.9	41.8	45.5	54.5
Rated Output Power [W]	3000	3680	4600	5000	6000
Max. Output Apparent Power [VA]	3300	4048/3680 ¹	5060	5500	6600
Rated Output Current (per phase)[A]	13.6	16.7/16 ¹	20.9	22.7	27.3
Rated Output Current (per phase)[A](For AUS)	13.0	16.0	20.0	21.7	26.1
Max. Output Current [A]	15.0	18.4	23.0	25.0	30.0
Rated Grid Voltage [V]			220/230/240		
Rated Grid Frequency [Hz]			50/60		
Power Factor			1 (adjustable from 0.8 leading to 0.8 lagging)		
THDi			<3% @rated power		
EPS OUTPUT (WITH BATTERY)					
Max. Output Apparent Power [VA]	3000	3680	4600	5000	6000
Peak Output Apparent Power [60s][VA]	3600	4400	5500	6000	7200
Max. Current (per phase)[A]	13.6	16.7	20.9	22.7	27.3
Rated Output Voltage [V]			220/230/240		
Rated Output Frequency [Hz]			50/60		
Power Factor			1 (adjustable from 0.8 leading to 0.8 lagging)		
THDi (linear load)			<2% @rated power		
Parallel Operation (PCS)			10		
SwitchTime [ms]			<20		
EFFICIENCY					
Euro Efficiency	95.26%	95.70%	96.23%	96.30%	96.33%
Max. Efficiency	97.01%	97.08%	97.04%	97.08%	97.08%
Max. Battery Charge Efficiency (PV to BAT)(@full load)			98.50%		
Max. Battery Discharge Efficiency (PV to BAT)(@full load)			97.00%		
PROTECTION					
Insulation Monitoring			YES		
Residual Current Monitoring			YES		
DC Reverse Polarity Protection			YES		
Anti-Islanding Protection			YES		
AC Short-circuit Protection			YES		
AC Overcurrent/Overvoltage Protection			YES		
DC Switch			YES		
SFD			DC: Type II / AC: Type III		
AFCI			Optional		
STANDARD					
Safety			EN 62109-1, EN 62109-2		
EMC			EN 61000-6-2, EN 61000-6-3		
Certification			EN50549-1, C10/11, VDE-AR-N 4105, G98, G99, CEI 0-21, NRS 097-2-1, AS / NZS 4777.2		
PROTECTION					
Dimensions (WxHxD)[mm]			434*418*185		
Weight [kg]			22		
Installation			Wall Mounted		
Topology			Non-Isolated		
Cooling Method			Natural		
Noise Emission [dB]			35		
Max. Operating Altitude [m]			2000		
Operating Temperature Range [°C]			-25-60		
Humidity [No Condensation]			0%-100%		
Protection Degree			IP65		
Standby Consumption [W]			<15		
Monitoring Module			Wi-Fi, LAN, 4G, GPRS (optional)		
Communication			2*RS485, DRM, Ripple Control, USB		
Display			LCD, App, Website		
Country of Manufacturer			China		
Warranty			10 Years		

¹: 3680 for G98