



Force HS-AS Series

Single Phase Hybrid Inverters
Also available in AC coupled.

3kW ~ 6kW

AUSTRALIAN 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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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		
MPPT 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			Active Frequency Drift with Positive Feedback		
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 (Indoor or Outdoor)		
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