



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



✉ hello@energizersolar.com energizersolar.com

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
PV INPUT (ONLY FOR HYBRID)	Force 3.0AS	Force 3.7AS	Force 4.6AS	Force 5.0AS	Force 6.0AS
Max. PV Array Power [Wp]	6000	7400	9200	10000	12000
Max. Input Power [W]	4500	5500	6900	7500	9000
Max. Input Voltage [V]	A: 2250 B: 2250	A: 2750 B: 2750	A: 3450 B: 3450	A: 3750 B: 3750	A: 4500 B: 4500
Start-up Input Voltage [V]			600		
Rated Input Voltage [V]			75		
MPPT Operating Voltage Range [V]			360		
Max. Input Current [A]			80-550		
Max. Short-circuit Current [A]			16/16		
No. of Independent MPP Trackers			20/20		
No. of Strings Per MPP Tracker			2		
			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
Rated Apparent 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](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
Rated Output Power [W]	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				
Battery Wake Up Function	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					