



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
- 97.8% 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]	3900	4680	5980	6500	7800
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]			13.5/13.5		
Max. Short-circuit Current [A]			18/18		
No. of Independent MPP Trackers			2		
No. of Strings Per MPP Tracker			1		
BATTERY CONNECTION					
Battery Type	Lithium Battery (LFP)				
Battery Voltage [V]	85-450				
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]	7000	7680	9600	10000	12000
Max. AC Input Current (per phase)[A]	31.8	34.9	43.6	45.5	54.5
Rated Output Power [W]	3000	3680	4600	5000	6000
Max. Output Apparent Power [VA]	3300	4048	5060	5500	6600
Rated Output Current (per phase)[A]	13.0	16.0	20.0	21.7	26.1
Max. Output Current [A]	14.3	17.6	22.0	23.9	28.7
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]	5000	5000	6000	6000	6000
Peak Output Apparent Power [60s][VA]	6000	6000	7200	7200	7200
Max. Current (per phase)[A]	21.7	21.7	26.1	26.1	26.1
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				
SwitchTime [ms]	<20				
EFFICIENCY					
Euro Efficiency	97.00%				
Max. Efficiency	97.80%				
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				
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]	430*410*178				
Weight [kg]	23				
Installation	Wall Mounted				
Topology	Transformerless				
Cooling Method	Natural				
Noise Emission [dB]	35				
Max. Operating Altitude [m]	2000				
Operating Temperature Range [°C]	-25 to 60				
Humidity [No Condensation]	0% to 100%				
Protection Degree	IP65				
Standby Consumption [W]	<10				
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				