



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
- 97.8% 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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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]	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				