



Force HS+ Series Single Phase Hybrid Inverters

7kW ~ 10.5kW

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 6 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

- Three & Four MPPT design with precise MPPT algorithm
- 97.80% 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 7.0HS+	Force 8.0HS+	Force 9.0HS+	Force 9.9HS+	Force 10.0HS+	Force 10.5HS+
ELECTRICAL CHARACTERISTICS						
Battery Type				Li-Ion		
Battery Voltage Range [V]				85 ~ 480		
Recommended Battery Voltage [VDC]				300		
Max. Charge Current [A]				50		
Max. Discharge Current [A]				50		
Communication Interfaces				CAN / RS485		
Reverse Connect Protection				YES		
INPUT PV						
Max. Array Power [Wp]	15000	16000	18000	20000	20000	21000
Max. Input Power [W]	10500	12000	13500	15000	15000	15000
Max. DC Voltage [V]				600		
Nominal DC Operating Voltage [V]				360		
Max. Input Current (Input A / Input B)[A]	16 / 16 / 16	16 / 16 / 16	16 / 16 / 16 / 16	16 / 16 / 16 / 16	16 / 16 / 16 / 16	16 / 16 / 16 / 16
Max. Short Circuit Current (Input A / Input B)[A]	20 / 20 / 20	20 / 20 / 20	20 / 20 / 20 / 20	20 / 20 / 20 / 20	20 / 20 / 20 / 20	20 / 20 / 20 / 20
Max. Inverter Backfeed Current to the Array [mA]				0		
MPPT Voltage Range [V]				80 ~ 500		
Start-up Voltage [V]				75		
Np. of MPP Trackers	3	3	4	4	4	4
Strings per MPP Tracker				1		
DC Disconnection Switch				PEDS150-HM55R-6, 6 layers		
OUTPUT AC						
Nominal AC Power [VA]	7000	8000	9000	9900	10000	10500
Rated Output Apparent Power [VA]	7000	8000	9000	9900	10000	10500
Max. Apparent AC power [VA]	7700	8800	9900	9900	10500	10500
Rated Grid Voltage (AC Voltage Range) [V]				220/230/240 (180~270)		
Rated Grid Frequency [Hz]				50/60, ±5		
Nominal AC Current [A]	30.4	34.8	39.1	43.0	43.5	45.7
Max. AC Current [A]	33.5	38.3	43.0	43.0	45.7	45.7
Displacement Power Factor				0.8 Leading to 0.8 Lagging		
THDI (Rated Power) [%]				<3		
INPUT AC						
Max AC Power [VA]	14000	14500	14500	14500	14500	14500
Max. AC Current [A]	60.9	63.0	63.0	63.0	63.0	63.0
Rated Grid Voltage (AC Voltage Range) [V]				220/230/240 (180~270)		
Rated Grid Frequency [Hz]				50/60, ±5		
EPS OUTPUT (WITH BATTERY)						
Rated Ouput Apparent Power [VA]	7000	8000	9000	9900	10000	10500
Max. EPS Power [VA]	7000	8000	9000	9900	10000	10500
EPS Rated Voltage [V], Frequency [Hz]				220/230/240, 50/ 60		
Rated Output Current [A]	31.8	36.4	40.9	45.0	45.5	47.7
Max. Output Current [A]	31.8	36.4	40.9	45.0	45.5	47.7
Max. EPS Current [A]	31.8	36.4	40.9	45.0	45.5	47.7
EPS Peak Power (60s) [W]	10000	10000	12000	12000	12000	12000
Switch Time [ms]				<10		
THDV (Linear Load) [%]				<2		
EFFICIENCY						
MPPT Efficiency [%]				99.90		
European Efficiency [%]				97.40		
Max. Efficiency [%]				97.80		
Max. Battery Charge Efficiency (PV to BAT) (@Full Load) [%]				98.50		
Max. Battery Discharge Efficiency (BAT to AC) (@Full Load) [%]				97.00		
EFFICIENCY						
PV Reverse Polarity Protection				YES		
Battery Reverse Protection				YES		
Anti-islanding Protection				Active Frequency Drift with Positive Feedback		
Output Short Protection				YES		
Leakage Current Protection				YES		
Insulation Resistor Detection				YES		
Overcurrent Protection / Overtemperature Protection				YES		
Overvoltage Category				III (AC side), II (DC side)		
AC/DC Surge Protection				Type II/Type I		
AFCI Protection				98.50		
POWER CONSUMPTION						
Standby Consumption [W] (Idle)				<15		
STANDARD						
Safety				IEC62109-1/IEC62109-2/IEC 62477-1		
EMC				EN 61000-6-1/EN 61000-6-2/ EN 61000-6-3		
Certification				999/EN50549/ NRS 097-2-1		
ENVIRONMENT LIMIT						
Ingress Protection				IP65		
Protective Class				Class I		
Operating Temperature Range [°C]				-25~+60 (Derating at +45)		
Humidity [%]				0~95 (No condensation)		
Altitude [m]				<2000		
Storage Temperature [°C]				-40~+70		
Noise Emission (Typical) [dB]				<30		
DIMENSION AND WEIGHT						
Dimensions (W* H* D) [mm]				450*527*208		
Weight [kg]				29 (KH)/27.5 (KA)		
Cooling Concept				Natural		
Topology				Non-isolated		
Communication				Meter(Optional), WIFI, 4G (Optional), DRM, USB, CT, RS485		
MANUFACTURE						
Country of Origin				China		