



## Force HT<sup>+</sup> Series

Three Phase Hybrid Inverters

5kW ~ 15kW

AUSTRALIAN VERSION 

The Energizer® Force HT Plus Series hybrid 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 7 inverter size options and it can connect to our EnergiStack HV Stackable Battery with up to seven battery modules connected in series, allowing for flexible storage capacity.

### High Performance Three Phase Hybrid Inverters

- Three MPPT design with precise MPPT algorithm
- 97.90% maximum efficiency
- IP65 rated
- Optional export control
- Compact & sleek design
- 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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Compact  
& Sleek



High  
Performance



IP65  
Rated



Remote  
Monitoring

MODEL INPUT	Force 5.0HT+	Force 6.0HT+	Force 8.0HT+	Force 9.9HT+	Force 10.0HT+	Force 12.0HT+	Force 15.0HT+
PV INPUT							
Max. Array Power [Wp]	11000	14000	18000	20000	20000	24000	30000
Max. DC Input Power [W]	11000	13200	17600	18000	18000	22500	22500
Max. DC Voltage [V]				1000 [1]			
Nominal DC Operating Voltage [V]				620			
Max. MPPT Input Current [A]				20/20/20			
Max. MPPT Short Circuit Current [A]				25/25/25			
Max. MPPT Input Power [W]				10000/10000/10000			
Min. Operating PV Voltage [V]				90 [2]			
MPPT Voltage Range [V]				120 ~ 950			
Start-up Input Voltage [V]				140			
No. of MPP Trackers				3			
Strings per MPP Tracker				1+1+1			
BATTERY CONNECTION							
Battery Type				Lithium-Ion Battery (LFP)			
Battery Voltage [V]				100 ~ 800			
Min. Operating Battery Voltage [V]				100			
Min. Battery Voltage @Full AC Load [V]	108	125	160	210	210	250	310
Max. Charge/ Discharge Current [A]				50.0			
Communication Interface				CAN			
AC OUTPUT							
Nominal AC Power [W]	5000	6000	8000	9900	10000	12000	15000
Max. Apparent AC Power [VA]	5500	6600	8800	9900	11000 [3]	13200	16500
Rated Grid Voltage (AC Voltage Range) [V]				400/230Vac; 380/220Vac, 3L/N/PE			
Rated Grid Frequency [Hz]				50/60, ±5			
Rated AC Current [A] (Per Phase)	7.6	9.1	12.1	15.0	15.2	18.2	22.7
Max. AC Current [A] (Per Phase)	8.3	10.0	13.3	15.0	16.7	20.0	25.0
Power Factor				1(Adjustable from 0.8 leading to 0.8 lagging)			
THDI [%]				<3 @rated power			
AC INPUT							
Max. AC Power [VA]	6000	7200	9600	12000	12000	14400	16000
Rated Grid Voltage (AC Voltage Range) [V]				400/230Vac; 380/220Vac, 3L/N/PE			
Rated Grid Frequency [Hz]				50/60, ±5			
Max. AC Current [A] (Per Phase)	9.1	10.9	14.5	18.2	18.2	21.8	24.2
EPS OUTPUT							
Max. Apparent AC Power [VA]	5000	6000	8000	10000	10000	12000	15000
Peak Apparent AC Power [VA] (60s)	6000	7200	9600	12000	12000	14400	15000
Rated Output Voltage [V]				400/230Vac; 380/220Vac, 3L/N/PE			
Rated Grid Frequency [Hz]				50/60			
EPS Max. Current [A] (Per Phase)	7.2	8.7	11.6	14.5	14.5	17.4	21.7
Power Factor				1(Adjustable from 0.8 leading to 0.8 lagging)			
Switch Time [ms]				<20			
THDV [%]				<3 @rated power			
EFFICIENCY							
MPPT Efficiency [%]				99.90%			
Max. Efficiency [%]	97.30%	97.70%	97.70%	97.90%	97.90%	97.90%	97.90%
Euro-Efficiency [%]				97.20%			
PROTECTION							
PV Reverse Polarity Protection				YES			
Battery Reverse Protection				YES			
Anti-Islanding Protection				YES			
Output Short Protection				YES			
Leakage Current Protection				YES			
Insulation Resistor Detection				YES			
Over Voltage Category				III(AC side), II(DC side)			
Reverse Connect Protection				YES			
Over-Current Protection/Over-Temperature Protection DC/AC Surge Protection				YES			
AFCI Protection				Type II(PV)/Type II(AC) Optional			
DC Switch				YES			
GENERAL DATA							
Dimensions (W*H*D) [mm]				600*450*226			
Dimension of Packing (W*H*D) [mm]				665*545*390			
Net Weight [kg]				34			
Gross Weight [kg]				40			
Installation				Wall-mounted			
Operating Temperature Range [°C]				-25 ~ +60 (Derating at 45)			
Storage Temperature [°C]				-40 ~ +70			
Storage/Operation Relative Humidity [%]				0 ~ 100			
Altitude [m]				<4000 @Derating exceeding 2000			
Protective Class				I			
Ingress Protection				IP65 (For outdoor use)			
Standby Consumption [W]				20 ~ 25			
Standby Mode				YES			
Cooling			Natural	FAN Cooling			
Noise Grade [dB]			<40	<55			
Inverter Topology				Non-Isolated			
Communication Interface		Ethernet, EMS(RS485), Meter, WiLAN(Wifi+LAN+Bluetooth), 4G(Optional), DRM, Ripple Control, USB, BMS(CAN), SG Ready					
LCD Display				Backlight 16*4 character			
Standard Warranty [year]				10			
Button				Capacitive touch sensor *4			
Buzzer				1, inside (EPS & Earth fault)			

[1] For 1000V system, PV Maximum operating voltage is 950V.

[2] The starting working voltage of the power supply is 90V.

[3] Belgian safety regulations require an apparent power of 10000W to be 10000VA.