



Force HT+ 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

 hello@energizersolar.com energizersolar.com**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			
Normalinal 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			
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							
Rated Output Apparent Power [VA]	5000	6000	8000	9900	10000	12000	15000
Max. Apparent AC Power [VA]	5500	6600	8800	9900	11000	13200	16500
Rated Grid Voltage (AC Voltage Range) [V]				400/230Vac; 380/220Vac, 3L/N/PE			
Rated Frequency [Hz]				50/60			
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 Frequency [Hz]				50/60			
Max. AC Current [A] (Per Phase)	9.1	10.9	14.5	18.2	18.2	21.8	24.2
EPS OUTPUT							
Nominal Output Power [W]	5000	6000	8000	10000	10000	12000	15000
Max Apparent AC Power [VA]	5000	6000	8000	10000	10000	12000	15000
Max. Output Current [A]	8.3	10.0	13.3	15.0	16.7	20.0	25.0
Rated Output Voltage [V]				400/230Vac; 380/220Vac, 3L/N/PE			
Rated Grid Frequency [Hz]				50/60			
Rated EPS Current [A] (Per Phase)	7.2	8.7	11.6	14.5	14.5	17.4	21.7
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			
THDI [%]				<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			
Abti-Islanding Protection				Active Frequency Drift with Positive Feedback			
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				YES			
DC/AC Surge Protection				Type II(PV)/Type II(AC)			
AFCI Protection				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]				33.5			
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				
Noise Grade [dB]			<40				
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)			
Country of Manufacturer				China			