



Force HT Pro Series Three Phase Hybrid Inverters

15kW ~ 30kW

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 6 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
- 97.80% 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 15.0HT	Force 20.0HT	Force 24.9HT	Force 25.0HT	Force 29.9HT	Force 30.0HT
PV INPUT						
Max. Recommended DC Power [W]	7500	10000	12500	12500	15000	15000
Max. DC Voltage [V]				1000		
Normalinal DC Operating Voltage [V]				750		
Max. Input Current [A]				32		
Max. Short Circuit Current [A]				40		
MPPT Voltage Range [V]				150 ~ 850		
MPPT Voltage Range [V] (Full Load)	170 ~ 850	230 ~ 850	280 ~ 850	280 ~ 850	340 ~ 850	340 ~ 850
Start-up Voltage [V]				160		
No. of MPP Trackers				3		
Strings per MPP Tracker				2/2/2		
Max. Inverter Backfeed Current to the Array				0		
BATTERY						
Battery Type				Lithium Battery		
Battery Voltage [V]				150 ~ 800		
Full AC Load Battery Voltage [V]	160 ~ 790	220 ~ 790	270 ~ 790	270 ~ 790	330 ~ 790	330 ~ 790
Max. Charge/Discharge Current [A]				50+50		
Number of Battery Inputs				2		
Communication Interface				CAN		
AC OUTPUT						
Nominal AC Power [VA]	15000	20000	24900	25000	29900	30000
Max. Apparent AC Power [VA]	16500	22000	24900	27500	29900	33000
Rated Grid Voltage (AC Voltage Range)[VAC]				400 / 230 ; 380 / 220 , 3L / N / PE		
Rated Grid Frequency [Hz]				50 / 60 ±5		
Max. AC Current [A] (per phase)	25.0	33.3	37.7	41.7	45.4	50.0
Power Factor			1 (Adjustable from 0.8 Leading to 0.8 Lagging)			
Export Control				Yes		
THDi (%)				<3 @Rated Power		
AC INPUT						
Max. AC Power [VA]	22500	30000	35000	35000	35000	35000
Rated Grid Voltage (AC Voltage Range) [V]			400 / 230 ; 380 / 220 , 3L / N / PE			
Rated Grid Frequency [Hz]			50 / 60 ±5			
Max. AC Current [A] (Per Phase)	34.1	45.5	53.0	53.0	53.0	53.0
Power Factor			1 (Adjustable from 0.8 Leading to 0.8 Lagging)			
EPS OUTPUT						
Max. Apparent AC Power [VA]	15000	20000	25000	25000	30000	30000
Peak Apparent AC Power [VA] (60s)	18000	24000	30000	30000	36000	36000
Rated Output Voltage [V]			400 / 230 ; 380 / 220 , 3L / N / PE			
Rated Grid Frequency [Hz]			50 / 60			
EPS Max. Current [A] (Per Phase)	22.7	30.3	37.9	37.9	45.5	45.5
Power Factor			1(Adjustable from 0.8 Leading to 0.8 Lagging)			
Parallel Operation			Yes @Max10PCS			
Switch Time [ms]			<20			
THDV [%]			<3 @Rated Power			
EFFICIENCY						
MPPT Efficiency [%]			99.90%			
Max. Efficiency [%]			97.80%			
Max. Battery to AC Efficiency [%]			97.60%			
Max. PV to Battery Efficiency [%]			98.10%			
Euro-Efficiency [%]	97.30%				97.40%	
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		
AC/DC Surge Protection				Type II		
AFCI Protection				Optional		
DC Switch				Optional		
String Monitoring Function				Optional		
GENERAL DATA						
Dimension (W*H*D) [mm]			600*560*225			
Dimension of Packing (W*H*D) [mm]			720*680*370			
Net Weight [kg]			52.5			
Gross Weight [kg]			57.5			
Installation			Wall-mounted			
Operating Temperature Range [°C]			-25 ~ +60 (Derating at 45)			
Storage Temperature [°C]			-40 ~ +70			
Altitude [m]	<45	<45	<60	<60	<60	<60
Storage/Operation Relative Humidity [%]			0 ~ 95 (Without Condensation)			
Altitude [m]			<4000			
Protective Class			I			
Ingress Protection			IP65 (for Outdoor Use)			
Standby Consumption [W]			200 for Hot Standby , 18 for Cold Standby			
Idle Mode			YES			
Cooling			Smart FAN Cooling			
Inverter Topology			Non-isolated			
Communication Interface			Meter, WIFI, 4G(optional), DRM, USB, BMS(CAN), RS485			
LCD Display			Backlight 16*4 Character			
Button			Capacitive Touch Sensor *4			
Buzzer			1, Inside (EPS&Earth Fault)			
STANDARD COMPLIANCE						
Safety			EN 62109-1, EN 62109-2			
EMC			IEC 61000-6-2, IEC 61000-6-3			

*More technical characteristics are available on demand and customized.

[1] Per MPP max. PV input power 15kW.

[2] For 1000V system, Maximum operating voltage is 950V.PV input voltage greater than 955V, PV over-voltage error will be reported.