



## Force HT-AT Series

Three Phase Hybrid Inverters  
Also available in AC coupled.

5kW ~ 12kW

EUROPEAN VERSION



The Energizer® Force HT 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 Three Phase Hybrid Inverters

- Dual-MPPT design with precise MPPT algorithm
- From 97.2% 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 5.0HT	Force 6.0HT	Force 8.0HT	Force 10.0HT	Force 12.0HT
	Force 5.0AT	Force 6.0AT	Force 8.0AT	Force 10.0AT	Force 12.0AT
<b>PV INPUT (ONLY FOR HYBRID)</b>					
Max. Input Power [W]	7500	9000	10400	13000	15000
Max. Input Voltage [V]			1000		
Start-up Input Voltage [V]			160		
Rated Input Voltage [V]			720		
MPPT Operating Voltage Range [V]			160-950		
Max. Input Current [A]	14/14	14/14	26/14	26/14	26/14
Max. Short-circuit Current [A]	18/18	18/18	36/18	36/18	36/18
No. of Independent MPP Trackers			2		
No. of Strings Per MPP Tracker	1/1	1/1	2/1	2/1	2/1
<b>BATTERY CONNECTION</b>					
Battery Type	Lithium Battery (LFP)				
Battery Voltage [V]	180-600				
Max. Charge/Discharge Current [A]	26.0				
Communication Interface	CAN (Communicate with Inverter), RS485 (Upgrade BMS)				
<b>AC INPUT AND OUTPUT (GRID)</b>					
Max. AC Input Power [VA]	10000	12000	16000	16000	16000
Max. AC Input Current (per phase)[A]	15.2	18.2	24.2	24.2	24.2
Rated Output Power [W]	5000	6000	8000	10000	12000
Max. Output Apparent Power [VA]	5500	6600	8800	11000	13200
Rated Output Current (per phase)[A]	7.2	8.7	11.6	14.5	17.4
Max. Output Current [A]	8.8	10.6	14.1	17.6	21.2
Rated Grid Voltage [V]	3L/N/PE 380/220; 400/230; 415/240				
Rated Grid Frequency [Hz]	50/60				
Power Factor	1 (adjustable from 0.8 leading to 0.8 lagging)				
THDi	<3% @rated power				
<b>EPS OUTPUT</b>					
Max. Output Apparent Power [VA]	5000	6000	8000	10000	12000
Peak Output Apparent Power [60s][VA]	10000	12000	14000	15000	15000
Max. Current (per phase)[A]	7.2	8.7	11.6	14.5	17.4
Rated Output Voltage [V]	3L/N/PE 400/230				
Rated Output Frequency [Hz]	50/60				
Power Factor	1 (adjustable from 0.8 leading to 0.8 lagging)				
THDi (linear load)	<3% @rated power				
SwitchTime [ms]	<20				
<b>EFFICIENCY</b>					
Euro Efficiency	97.80%			98.00%	
Max. Efficiency	97.20%			97.23%	
Max. Battery Charge Efficiency (PV to BAT)(@full load)			98.50%		
Max. Battery Discharge Efficiency (PV to BAT)(@full load)			97.00%		
<b>PROTECTION</b>					
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				
AFCI	Optional (Available in Q3, 2022)				
<b>STANDARD</b>					
Safety	EN 62109-1, EN 62109-2, EN 62477-1				
EMC	IEC 61000-6-2, IEC 61000-6-3				
Certification	EN50549-1, C10/11, VDE-AR-N 4105, G98, G99, CEI 0-2 1				
<b>PROTECTION</b>					
Dimensions (WxHxD)[mm]	449*519*198				
Weight [kg]	28				
Installation	Wall Mounted				
Topology	Transformerless				
Cooling Method	Natural			FAN Cooling	
Noise Emission [dB]	35			45	
Max. Operating Altitude [m]	2000				
Operating Temperature Range [°C]	-25 to 60				
Humidity [No Condensation]	0% to 100%				
Protection Degree	IP65				
Standby Consumption [W]	<15				
Monitoring Module	Wi-Fi, LAN, 4G, GPRS (optional)				
Communication	2*RS485, DRM, Ripple Control, USB				
Display	LCD, App, Website				
Warranty	10 Years				