



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



✉ hello@energizersolar.com  energizersolar.com



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
PV INPUT (ONLY FOR HYBRID)					
Max. Input Power [W]	A: 4000 B: 4000	A: 4500 B: 4500	A: 8000 B: 5000	A: 8000 B: 5000	A: 8000 B: 5000
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]	16/16	16/16	32/16	32/16	32/16
No. of Independent MPP Trackers			2		
No. of Strings Per MPP Tracker	1/1	1/1	2/1	2/1	2/1
BATTERY CONNECTION					
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)				
AC INPUT AND OUTPUT (GRID)					
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]	8.3	10.0	13.3	16.7	20.0
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				
EPS OUTPUT					
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				
EFFICIENCY					
Euro Efficiency	97.20	97.20	97.30	97.30	97.30
Max. Efficiency	97.80	97.80	98.00	98.00	98.00
Max. Battery Charge Efficiency (PV to BAT)(@full load)	98.50%				
Max. Battery Discharge Efficiency (PV to BAT)(@full load)	97.00%				
PROTECTION					
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)				
STANDARD					
Safety	EN 62109-1, EN 62109-2, EN 62477-1				
EMC	EN 61000-6-1/2/3/4				
Certification	EN 50549-1, Tor Erzeuger Typ A, OVE-DIRECTIVE R25, C10/11, VDE-AR-N 4105, UTE C15-712-1, NRS 097-2-1, NTS TypeA, CEI 0-21				
PROTECTION					
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]	<10				
Monitoring Module	Wi-Fi, LAN, 4G, GPRS (optional)				
Communication	2*RS485, DRM, Ripple Control, USB				
Display	LCD, App, Website				
Warranty	10 Years				