



Energizer. Solar

# Force D/Force A Series

Split Phase Inverters  
Available in DC & AC coupled.

3.8kW ~ 11.4kW

USA VERSION



The Energizer® Solar Force D/Force A 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.

Inverter sizes range from 3.8kW to 11.4kW and it can connect to our Powerstack with up to seven battery modules connected in series, allowing for flexible storage capacity.

## High Performance Split Phase Hybrid Inverters

- Dual & Three-MPPT design with precise algorithms
- 97.6% maximum efficiency
- IP65 rated
- Optional export control
- Compact & lightweight
- Wide voltage range/low start-up voltage
- Android and iPhone apps available
- 12.5 years warranty



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MODEL INPUT	Force 3.8DC	Force 5.7DC	Force 7.6DC	Force 9.6DC	Force 11.4DC
	Force 3.8AC	Force 5.7AC	Force 7.6AC	Force 9.6AC	Force 11.4AC
<b>PV INPUT (ONLY FOR HYBRID)</b>					
Max. Input Power [W]	5700	8550	11400	14400	17100
Max. Input Voltage [V]			600		
Start-up Input Voltage [V]			100		
Rated Input Voltage [V]			380		
MPPT Operating Voltage Range [V]			80-550		
MPPT Operating Voltage Range [V] (Full Load)	204-500	204-500	271-500	257-500	305-500
Max. Input Current [A]		28/14		28/14/14	
Max. Short-circuit Current [A]		44/22		44/22/22	
No. of Independent MPP Trackers		2		3	
No. of Strings Per MPP Tracker		2/1		2/1/1	
<b>BATTERY CONNECTION</b>					
Battery Type			Lithium Battery (LFP)		
Battery Voltage [V]			85-460		
Rated Battery Voltage [V]			360		
Max. Continuous Charge/Discharge Current [A]			50		
Max. Continuous Charge/Discharge Power [W][HS]	5700/4180	8550/6270	11400/8360	14400/10560	17100/12540
Max. Continuous Charge/Discharge Power [W][AS]	3800/4180	5700/6270	7600/8360	9600/10560	11400/12540
Max. Discharge Current (60s) [A]			60.0		
BMS Communication Interface			CAN 2.0		
<b>AC INPUT AND OUTPUT (GRID)</b>					
Max. AC Input Power [VA]	3800	5700	7600	9600	11400
Max. AC Input Current [A]	16	24	32	40	48
Input Voltage Range [V]			211-264		
Input Frequency Range [Hz]			57-63		
Rated Output Power [W]	3800	5700	7600	9600	11400
Max. Output Apparent Power [VA]	3800	5700	7600	9600	11400
Rated Output Current [A]	15.8	23.8	31.7	40.0	47.5
Max. Output Current [A]	15.8	23.8	31.7	40.0	47.5
Rated Grid Voltage [V]			240 (211-264)		
Rated Grid Frequency [Hz]			57-63		
Power Factor			>0.99 (adjustable from 0.8 leading to 0.8 lagging)		
THDI			<3% @rated power		
<b>AC OUTPUT (BACKUP)</b>					
Rated Output Power [W]	3800	5700	7600	9600	11400
	3800 @PSUS4000H-2 3800 @PSUS4000H-3 3800 @PSUS4000H-4 3800 @PSUS4000H-5 3800 @PSUS4000H-6 3800 @PSUS4000H-7	5700 @PSUS4000H-2 5700 @PSUS4000H-3 5700 @PSUS4000H-4 5700 @PSUS4000H-5 5700 @PSUS4000H-6 5700 @PSUS4000H-7	7600 @PSUS4000H-2 7600 @PSUS4000H-3 7600 @PSUS4000H-4 7600 @PSUS4000H-5 7600 @PSUS4000H-6 7600 @PSUS4000H-7	9600 @PSUS4000H-2 8640 @PSUS4000H-3 8640 @PSUS4000H-4 8640 @PSUS4000H-5 8640 @PSUS4000H-6 8640 @PSUS4000H-7	11400 @PSUS4000H-2 8640 @PSUS4000H-3 11400 @PSUS4000H-4 11400 @PSUS4000H-5 11400 @PSUS4000H-6 11400 @PSUS4000H-7
Rated Output Power @ different batteries [W]					
Max. Output Apparent Power [VA]	4180	6270	8360	10560	12540
Peak Output Apparent Power (10min) [VA]	4560	6840	9120	11520	13680
Peak Output Apparent Power (60s) [VA]	5130	7695	10260	12960	15390
Max. Continuous Output Current [A]	17.4	26.1	34.8	44.0	52.3
Rated Output Voltage [HV]			120/240		
Rated Output Frequency [Hz]			60		
Load Start Capacity [A] LRA	48 @PSUS4000H-2 72 @PSUS4000H-3 96 @PSUS4000H-4 110 @PSUS4000H-5 110 @PSUS4000H-6 110 @PSUS4000H-7	48 @PSUS4000H-2 72 @PSUS4000H-3 96 @PSUS4000H-4 110 @PSUS4000H-5 110 @PSUS4000H-6 110 @PSUS4000H-7	48 @PSUS4000H-2 72 @PSUS4000H-3 96 @PSUS4000H-4 110 @PSUS4000H-5 110 @PSUS4000H-6 110 @PSUS4000H-7	48 @PSUS4000H-2 72 @PSUS4000H-3 96 @PSUS4000H-4 110 @PSUS4000H-5 110 @PSUS4000H-6 110 @PSUS4000H-7	48 @PSUS4000H-2 72 @PSUS4000H-3 96 @PSUS4000H-4 110 @PSUS4000H-5 110 @PSUS4000H-6 110 @PSUS4000H-7
THDv (linear load)			<3% @rated power		
Imbalance for Split-Phase Loads			100%		
<b>EFFICIENCY</b>					
CEC Efficiency			97.00%		
Max. Efficiency			97.60%		
Max. Battery Discharge Efficiency (PV to BAT)(@full load, 370dc)			97.40%		
<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			YES		
<b>STANDARD</b>					
Safety		UL1741, UL1741 SA, UL1699B, CSA (22.2, UL62109-1, UL1998			
EMC		FCC Part 15 Class B			
Certification		IEEE1547, IEEE1547.1, Rule 21			
<b>PROTECTION</b>					
Dimensions (WxHxD)[inch]			18.2" x 25.9" x 9.2"		
Weight [lbs]			83.8		
Installation			Wall Mounted		
Topology			Transformerless		
Cooling Method			Natural Convection		
Noise Emission [dB]			<35		
Max. Operating Altitude [m]			9,8423 ft, derating above 6,560 ft		
Operating Temperature Range			-13°F to +140°F, derating above 104°F		
Humidity (No Condensation)			0% to 100% (no condensation)		
Protection Degree			Type 4X (IP65)		
Standby Consumption [W]			<25		
Maximum number of Inverters (Parallel)			4		
Monitoring Module			Wi-Fi, LAN		
Communication			CAN2.0, RS485, SUNSPEC		
Display			LCD, App, Website		
Country of Manufacturer			China		
Warranty			12.5 Years		