

Three-Phase Hybrid Inverter



MODEL 15



High-efficiency

- 200% PV oversized and up to 110% AC output
- 200% peak EPS apparent power, 10s
- Built-in shadow tracking^①



Intelligent

- Single unit UPS-level switching time < 4ms (Typical)
- CT compatible, loads respond within 0.3s
- Max. 10 units parallel for on-grid and off-grid operation^②
- Max. charging / discharging current of 300A
- Generator compatible^③



Safe

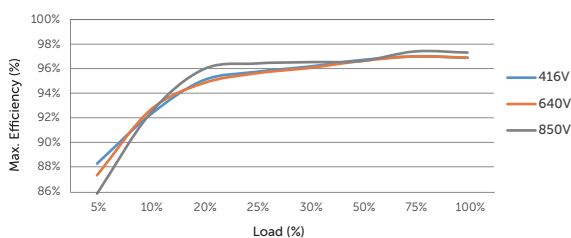
- IP65 protection degree
- Integrated SPD
- AFCI protection(optional)



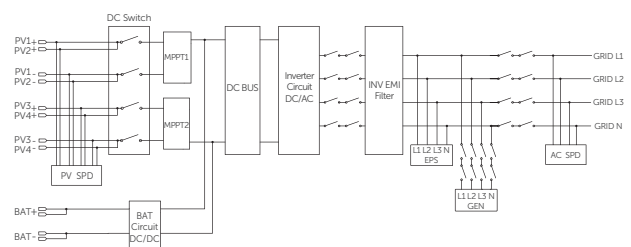
Economical

- Max. DC input current 18A per channel, supports high power solar panels
- Low start up voltage brings longer operation time

Efficiency Curve (15kW)



Circuit Diagram



DC INPUT	
Max. PV Input Power [Wp] ^④	30000
Max. PV Input Voltage [V] ^⑤	1000
Start Output Voltage [V]	150
Nominal Input Voltage [V]	640
Operating Voltage Range [V] ^⑥	160 ~ 950
MPPT Voltage Range [V]	160 ~ 950
No. of MPPT / Strings per MPPT	2 / (2 / 2)
Max. Input Current [A] ^⑦	36 / 36
Max. Short Circuit Current [A]	50 / 50
AC INPUT & OUTPUT	
Nominal AC Output Power [W]	15000
Max. AC Output Apparent Power [VA]	16500
Max. AC Output Current [A]	25.0
Max. AC Input Apparent Power [VA]	30000
Max. AC Input Current [A]	45.5
Nominal AC voltage [V], Frequency[Hz]	3L / N / PE; 220 / 380, 230 / 400; 50 / 60
Displacement Power Factor	0.8 leading ~ 0.8 lagging
THDi (rated power) [%]	< 3
BATTERY DATA	
Battery Type	Lithium / Lead-Acid
Battery Voltage Range [V]	40 ~ 60
Nominal Battery Voltage [V]	48
Max. Charging / Discharging Current [A]	300
EPS OUTPUT (WITH BATTERY)	
Nominal output power [W]	15000
Peak Apparent Power [VA , s] ^⑧	30000, 10
Nominal AC Output Current[A]	21.7
Nominal Voltage [V], Frequency [Hz]	220 / 380, 230 / 400, 50 / 60
Switch Time [ms]	< 4
THDv (linear load) [%]	< 2
SYSTEM DATA	
MPPT Efficiency [%]	> 99.9
Max. Efficiency [%]	97.6
Euro. Efficiency [%]	97.0
ENVIRONMENT LIMIT	
Degree of Protection	IP65
Operating Temperature Range [°C]	-25 ~ +60 (derating above +45)
Relative Humidity [%]	4 ~ 100 (condensing)
Max. Operation Altitude [m]	< 3000
Storage Temperature [°C]	-25 ~ +70
Noise Emission (typical) [dB]	≤ 55
GENERAL	
Dimensions(WxHxD) [mm]	520 x 705 x 258
Net Weight [kg]	44.6
Cooling Concept	Smart Cooling
Topology	Non-isolated
HMI / Communication Interfaces	LED+LCD / CAN, RS485, CT, Meter, USB, NTC, WIFI+LAN
Warranty [years]	5
STANDARD	
Safety	EN IEC 62109-1 / -2
EMC	EN61000-6 / 1 / 2 / 3 / 4
Certification	NRS 097-2-1, IEC 61727, IEC 62116, PEA, MEA, BIS

① ② ③ To be released in Q4 2024;

④ Derating occurs above +45°C, reducing the maximum PV input power

⑤ The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage inverter

⑥ Input voltage exceeding the operating voltage range may triggers inverter protection

⑦ When one MPPT has two string inputs, if both strings are connected to the PV, the maximum current per string must not exceed 18A. If only one PV string is connected, the maximum current per string must not exceed 20A.

⑧ Depend on PV and battery capacity

Disclaimer: The values presented above were obtained in controlled conditions by SolaX's laboratory. Actual performance may differ due to product variations, software updates, operating conditions, and environmental influences