



X1-Micro (1-in-1)

The SolaX X1-Micro series of microinverters is renowned for its exceptional power output, making it one of the highest-rated models among 1-in-1 microinverters with an impressive capacity of up to 600 VA. These products are designed to accommodate high power modules, incorporating one independent MPPTs and supporting substantial input current and output power.

With the integration of PLC wired technology, the X1-Micro series ensures reliable and consistent communication, providing users with a seamless monitoring and control experience. Offering a cost-effective solution, these microinverters are well-suited for both residential and commercial solar applications. Additionally, they are fully compatible with the SolaX Hybrid system and can be seamlessly integrated into AC coupled systems on the market, enhancing their versatility and adaptability.

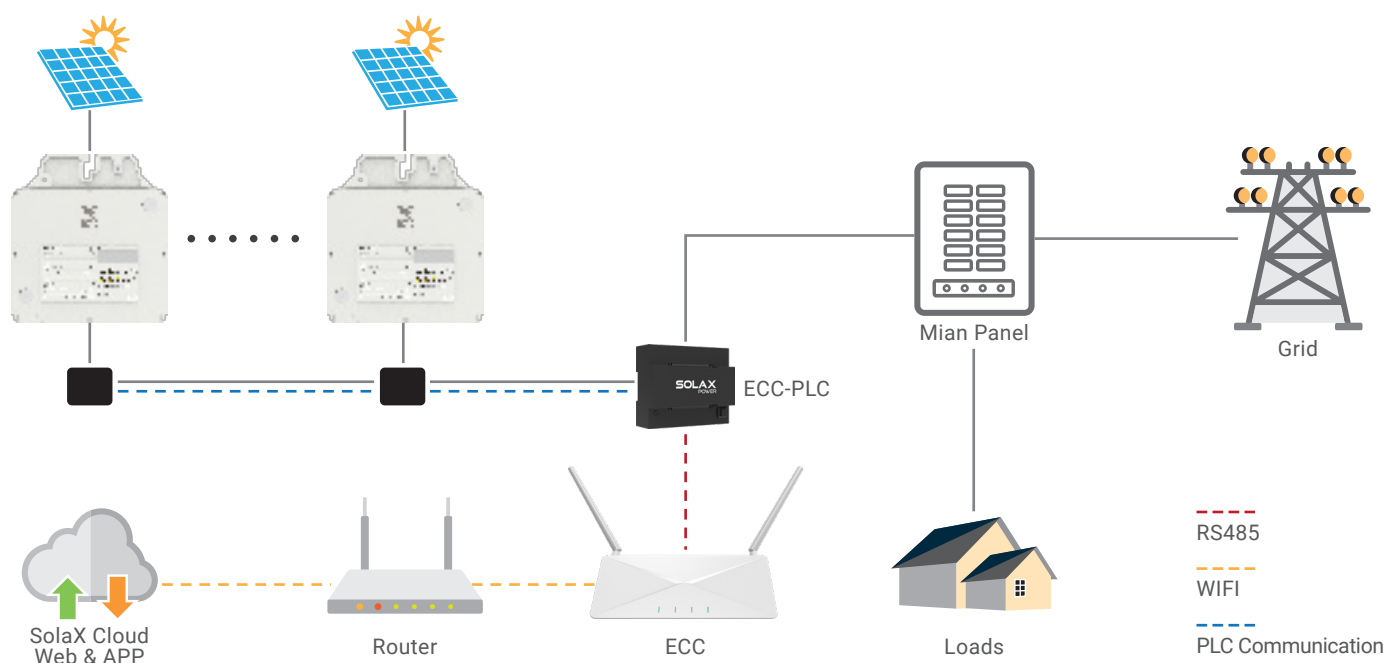


X1-Micro 300 / X1-Micro 400 / X1-Micro 450 / X1-Micro 500 / X1-Micro 600

Features

- Max output power up to 600VA with one independent input channels(MPPT)
- Up to 20A DC input current to be compatible with the high power PV module
- Built-in industrial grade PLC module for high reliability
- Safety protection relay integrated
- Support micro-grid, AC coupling solution with existing storage system
- Support the integration of a single-phase microinverter into a three-phase power grid system
- With Reactive Power Control and Rapid Shutdown Function
- Easy to install and maintain with small size, light weight
- IP67 protection class, more reliable

Communication Diagram



	X1-Micro 300	X1-Micro 400	X1-Micro 450	X1-Micro 500	X1-Micro 600
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DC INPUT

Max. PV input power [W]	240 to 410+	320 to 550+	360 to 600+	400 to 670+	400 to 670+
Max. PV input voltage [V]			60		
MPPT voltage range[V]	22-45			22-55	
Start-up voltage [V]			20		
Max. PV input current[A]	14	18		20	
Max. input short circuit current I _{sc} [A]	20	20		25	
No. of MPP trackers			1		
Strings per MPP tracker			1		

AC OUTPUT

Rated AC output power [VA]	300	400	450	500	600
Rated grid voltage/range[V]	220 or 230 or 240 / 180-275				
Rated AC output current [A]	1.36 / 1.30 / 1.25	1.82 / 1.74 / 1.67	20.5 / 1.96 / 1.88	2.27 / 2.17 / 2.08	2.73 / 2.61 / 2.50
Nominal AC frequency/range [Hz]	50/45-55 or 60/55-65				
Maximum units per branch 25A	18 / 19 / 20	13 / 14 / 15	12 / 12 / 13	11 / 11 / 12	9 / 9 / 10
Power Factor range (adjustable)	>0.99(-0.8~0.8 adjustable)				
THDi (Rated power) [%]	< 3%				

Efficiency

Max. efficiency	96.50%				
Nominal MPPT efficiency	99.90%				
Night power consumption [mW]	< 40				

STANDARD

Safety	IEC62109-1/-2, IEC61000-6-1/-2/-3-4, IEC61000-3-2, IEC61000-3-3, IEC 61727, IEC 62116, IEC 61683				
Grid Connection Standard	EN50549-1:2019, VDE-AR-N 4105: 2018, VFR 2019, RD1699:2011, CEI 0-21:2019, ABNT NBR 16149, ABNT NBR 16150, AS/NZS 4777.2:2015				

ENVIRONMENT LIMIT

Ingress protection rating	IP67 (NEMA 6)				
Operating ambient temperature range [°C]	-40 ~ 65°C				
Humidity[%]	0 ~ 100(condensing)				
Storage temperature[°C]	- 40°C ~ 65°C				

GENERAL

Dimension(W x H x D) [mm]	206 x 178 x 34				
Weight [kg]	1.75				
Cooling concept	Natural convection				
Communication	PLC				
Monitoring	Solax Cloud				