

# SN12(X)/15/17/20/25PT

## Three Phase PV Inverter/2 MPPTs

**Safe & Reliable**  
 IP66 protection & C5 anti-corrosion rating  
 Type II SPD, both DC & AC sides  
 Built-in arc-fault circuit-interrupter

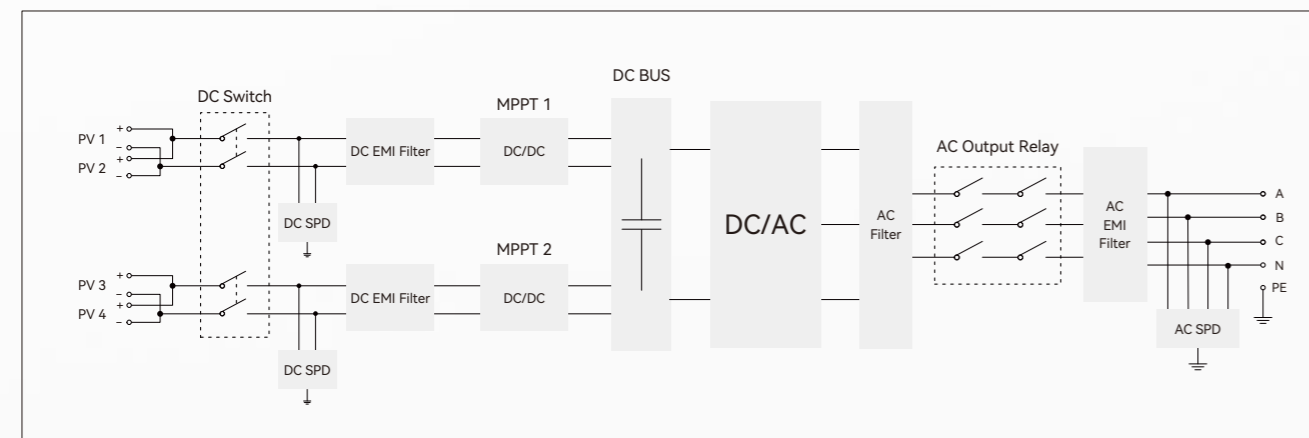
**High Yield**  
 Max. efficiency up to 98.5%  
 Compatible with bifacial PV modules  
 1.1 times continuous output overload

**High-Performance Management**  
 Accurate string current detection  
 Support export power limit  
 Local & remote maintenance

**User-Friendly Design**  
 Fanless design for quiet operation  
 Optional OLED screen  
 Quickly set up smart monitoring via APP



## Circuit Diagram



Model	SN12PT-X	SN15PT	SN17PT	SN20PT	SN25PT
<b>Input (PV)</b>					
Max. PV input voltage	1100V				
Recommended max. PV power (STC)	18kWp	22.5kWp	25kWp	30kWp	37.5Wp
Nominal PV input voltage	620V				
MPPT operating voltage range	140V~1000V				
Full power MPPT voltage range	375V~850V	470V~850V	470V~850V	470V~850V	470~850V
Startup PV voltage	180V				
Number of PV inputs	3 (2 MPPTs, 2/1)	3 (2 MPPTs, 2/1)	4 (2 MPPTs, 2/2)	4 (2 MPPTs, 2/2)	4 (2 MPPTs, 2/2)
Max. current per MPPT	32A/20A	32A/20A	32A/32A	32A/32A	40A/32A
Max. short circuit current per MPPT	50A/25A	50A/25A	50A/50A	50A/50A	50A/50A
<b>Output (grid)</b>					
Nominal output power	12kW	15kW	17kW	20kW	25kW
Max. output apparent power	13.2kVA	16.5kVA	18.7kVA	22kVA	27.5kVA
Max. output current	19.1A	23.9A	27.1A	31.9A	39.9A
Nominal grid voltage	3L/N/PE, 230V/400V				
Grid voltage range	320V~480V (According to local standards)				
Nominal grid frequency	50/60Hz				
Power factor range	0.8leading~0.8lagging				
Harmonic (THD)	<3%				
<b>Efficiency</b>					
Max. efficiency	98.50%				
EU efficiency	98.10%				
<b>General data</b>					
Display mode	LED, OLED(optional)				
Communication port	RS485, WIFI/4G/Ethernet				
Weight	24kg	24kg	24kg	25kg	25kg
Dimensions (W*H*D)	580*430*270mm				
Max. operating altitude	4000m(>3000m derating)				
Cooling method	Natural				
Humidity	0~100%				
Operating temperature	-25~60°C				
Protection level	IP66				
Topology	Transformerless				
Self-consumption at night	< 1W				
<b>Protection</b>					
Leakage current protection	Yes				
Anti-island protection	Yes				
DC reverse protection	Yes				
AC short circuit protection	Yes				
PV string current detection	Yes				
PID recovery	Optional				
DC switch	Yes				
Arc-fault circuit-interrupter	Yes				
Surge protection	DC II/AC II				
Insulation monitoring	Yes				
Over-voltage protection	AC III/ DC II				
IEC 62109-1/2, IEC61000-6, IEC62116, IEC61727, IEC61683, IEC60068, IEC61000-3, EN50549-1, VDE4105, C10/11,CEI-0-21, PTPIREE, ORDINANCE No.140					