

Amnetz II Series

- **High Efficiency**

High-efficiency inverter topology ensures annual power generation

Advanced control algorithms and high adaptation ability to the grid, improving the stability of power generation system

- **Safe and Reliable**

IP65 for outdoor application

Integrated AC/DC full lightning protection

Aluminum alloy die-casting integrated chassis, ensure 25 years full life circle running

- **Intelligent Management**

Intelligent cloud platform monitoring, realizing one- key APP real-time monitoring

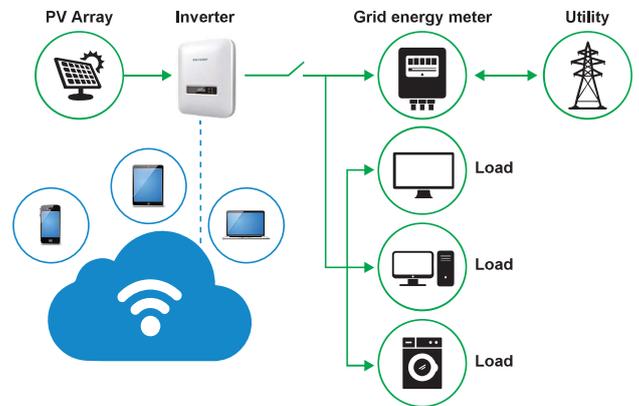
Support RS485, GPRS, WIFI and other communication methods

- **Green Saving**

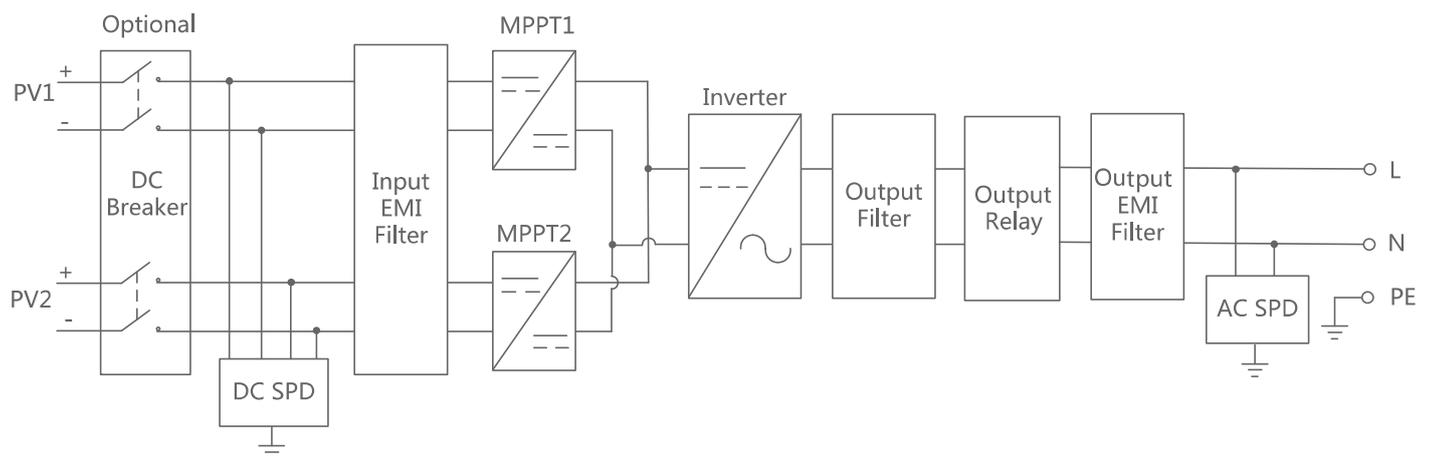
Small size, easy to install and use

Natural cooling, ensuring low environmental noise

Super-wide operating temperature range, adapt to extremely cold, high temperature areas



Function Diagram



Full Specifications

MODEL	Amnetz II 3K	Amnetz II 3.6K	Amnetz II 4K	Amnetz II 4.6K	Amnetz II 5K	Amnetz II 6K
DC INPUT						
Max. PV input voltage	600Vdc					
Rated PV voltage	360Vdc					
Max. PV input current	22A (2×11A)					
No. of MPPTs	2					
No. of PV strings per MPPT	1/1					
MPPT voltage range	100Vdc ~500Vdc					
Starting voltage	120Vdc					
AC OUTPUT						
Rated AC output power	3.0kW	3.6kW	4.0kW	4.6kW	5.0kW	6.0kW
Max. output power	3.3kW	3.96kW	4.4kW	5.06kW	5.5kW	6.0kW
Rated AC output voltage	220V/230Vac					
Rated output current	13.6A	16.4A	18.2A	20.9A	22.7A	27.3A
Max. output current	15.0 A	18.0 A	20.0 A	23.0 A	25.0 A	27.3 A
Rated grid frequency	230Vac					
Grid frequency range	45~55Hz/55~65Hz					
Power factor	>0.99 full load					
Adjustable power factor	0.8 (leading) ~ 0.8 (lagging)					
THDi	<3% (nominal power)					
EFFICIENCY						
Max. efficiency	98.10%					98.30%
European efficiency	97.70%					97.90%
PROTECTION						
Anti-islanding	Yes					
DC Reversed Connection	Yes					
AC short circuit protection	Yes					
Temperature protection	Yes					
Surge protection	Yes					
PV fault detect	Yes					
DC switch	optional					
GENERAL						
Dimensions (W×H×D)	360×420×125 mm					
Weight	12.6kg					
IP grade	IP65					
Noise level	≤25 dB					
Night power consumption	<1W					
Cooling type	Natural cooling					
Altitude	4000m (>2000m derating)					
Operating temperature	-40°C~60°C (>45°C derating)					
Relative humidity	0~95%					
Display	LCD display + LED indicator					
Communication	RS485/WiFi (optional)/GPRS (optional)					
DC terminal	MC4 Terminal					
AC terminal	Plug and play connector					
Installation method	Wall-mounted					
Standard	EN62109-1, EN62109-2 , EN 61000-6-2, EN 61000-6-3 , IEC 62116:2014 IEC 61727:2004 ,IEC 60068-2-1:2007 ,IEC 60068-2-2:2007 ,IEC 60068-2-14:2009 ,IEC 60068-2-30:2005					

*Specifications are subject to change without prior notice.