



Model: NI-500KW-270V-1180A

FEATURES

- Wide DC input voltage range
- Maximum efficiency is more than 98.7%, European efficiency reaches 98.4%
- Double lines MPPT function
- MPPT efficiency >99.9%
- LCD displays different language screen
- Perfect protection function
- Meets State Grid LVRT requirements
- Remote parameter monitoring function
- Remote active power adjustable function (0-100%)
- Adjustable reactive power, power factor range will head 0.9 or back 0.9
- Over temperature linear derating function
- Drive signal spdif out and avoid other signal interference
- LCL inverter filter and smaller harmonic
- Smart controlled cooling fan, automatically match high and low speed and save electricity to improve generation capacity
- Structure optimization design and small occupation space
- Automatically on and off model requires no manual intervention
- Heat dehumidification function

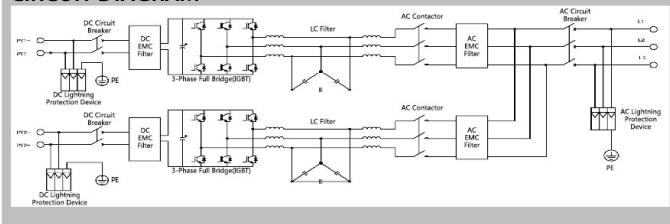
MEASURING AND CONTROL FUNCTION

- Monitors all data of running machine
- Keeps fault and operation record, warning signal when fault

PROTECTION FUNCTION

- Over/under voltage protection
- Over/under frequency protection
- Anti-islanding protection
- Recovery grid-connected protection
- Overload protection
- Remote parameter monitoring function
- Over temperature protection

CIRCUIT DIAGRAM



Input (DC)	
Max. DC power	550kW
Max. Input voltage	1000V
Trigger voltage	480V
Max. Input current	1200A
MPPT voltage range	450~850V
MPPT tracking ways	2
Number of DC inputs	10 (optional)

Output (AC)	
Rated power	500kW
Rated grid voltage	270V
Max. output current	1180A
Rated grid frequency	50Hz
Grid voltage range	230~297V
Grid frequency range	49.5~50.2Hz
Output current THD (at rated power)	≤2%
Power factor at rated power	≥0.99
Output voltage DC component	<0.5%
AC output / Output terminal	4xM10/Copper Bar

Mechanical data	
Dimensions (W x H x D)	1735 x 1980 x 1080mm
Weight	1400kg

System data	
Max. efficiency	98.7% (No transformer)
European efficiency	98.4% (No transformer)
Degree of protection	IP21 (indoor)
Self-consumption at night	≤60W
Operating temperature range	-20°C ~ +50°C
Storage temperature range	-40°C ~ +80°C
Cooling method	By fan
Relative humidity	≤95%, non-condensing
Max. altitude	6000m
Fresh air consumption	5000m ³ /h
Display	LCD
Standard communication	RS485
Optional communication	Ethernet/GPRS

