

PV-PNS03ATL-GER 2500W
 PV-PNS04ATL-GER 3300W
 PV-PNS06ATL-GER 4600W

T o p i n Q u a l i t y



Changes for the Better

Lavish in technology, elegant in form. The photovoltaic inverter, with efficiency to spare.

The Leader in Efficiency

- Independently customized power module
- High-power/low-loss ferrite reactor
- Optimum control software
- Industry top-class Max. efficiency of 96.2%, Euro. efficiency of 95.1%
- MPPT efficiency of 99.7% reflected in actual output power

The Leader in Reliability

- Original derating designing concept
- Original cooling and clean structure
- Original drain structure of housing

The Leader in Safety

- Terminal block connecting method with ring tongue terminals
- Metal cover enclosed structure

The Leader in Easy Installation

- Wide range input voltage from 150V to 700V
- Original photovoltaic inverter configurator
- Smaller in capacity, lighter in weight
- Simple wall-mounted fixture
- Simple parallel installation

The Leader in User Friendly

- Large-size LCD display with backlight
- Simple-search multi-function button bank

The Leader in Eco-friendly

- Compliance with European RoHS regulations
- WEEE mark labeling
- Recyclable steel pallets



Specification Sheet

| | | | |
|------------------------------------|----------------------------------------|-----------------|-----------------|
| Manufacturer | MITSUBISHI ELECTRIC | | |
| Model | PV-PNS03ATL-GER | PV-PNS04ATL-GER | PV-PNS06ATL-GER |
| Input | | | |
| Recommended generator power | 3250W | 4300W | 6000W |
| Max. DC voltage | 700V DC | | |
| Min. DC voltage | 150V DC | | |
| PV-voltage range, MPPT | 160V – 650V DC | | |
| Max. input current | 12A DC | 18A DC | |
| Max. numbers of strings | 2 | 3 | |
| Surge voltage protection | varistors, surge absorbers | | |
| Personnel protection | ground fault monitoring / isolation | | |
| Output | | | |
| Max. AC power | 3000W | 3500W | 5000W |
| Rated AC power | 2500W | 3300W | 4600W |
| Max. AC current | 13.0A | 15.2A | 21.7W |
| Rated AC current | 10.9A | 14.3A | 20.0W |
| THD of grid current | < 5% | | |
| Possible range of AC voltage | 184V – 265V | | |
| AC frequency | 47.5Hz – 50.2 Hz | | |
| Phase difference (cos phi) | approx. 1 | | |
| Connection to utility | Terminal block | | |
| Internal consumption in stand-by | < 0.35W | | |
| Efficiency | | | |
| Max. efficiency at maximum voltage | 96.1% | 96.2% | |
| European weighted efficiency | 94.6% | 95.1% | |
| MPPT efficiency | 99.7% | | |
| Enclosure | | | |
| Protection degree (DIN EN 60529) | IP41 <Indoor> | | |
| Cooling | controlled forced ventilation | | |
| Ambient temperature | -25°C – +60°C | | |
| Relative humidity | 30% – 90% | | |
| Dimensions (W x H x Dmm) | 300 x 170 x 500 | | |
| Weight | approx. 19kg | approx. 20kg | |
| Connection with PV cable | Terminal block | | |
| Noise level | < 45dB | | |
| Display | integrated | | |
| Display language | 3 languages (German, English, Italian) | | |
| Insulating style | Transformerless | | |
| External communication | RS485 interface | | |
| Protection devices | | | |
| DC-isolation monitoring | integrated | | |
| Over temperature protection | integrated | | |
| Reaction at DC-overload | shift of operating point | | |
| ENS / fault-current monitoring | integrated | | |
| Regulation / Certificate | CE conforming | | |
| | DIN EN50178 | | |
| | DIN EN61000-6-2 | | |
| | DIN EN61000-6-3 | | |
| | DIN EN61000-3-2 | | |
| | DIN EN61000-3-3 | | |
| | DIN VDE0126-1-1 | | |
| | WEEE regulations | | |
| | RoHS regulations | | |
| Warranty term (standard/option) | 5 years / 10 years | | |



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