

THREE PHASE HYBRID INVERTER

Onduleur hybride 3 phases



PHN5KT / PHN6KT / PHN8KT
PHN10KT / PHN12KT / PHN15KT



98.5%
Peak Efficiency



50%
Max. DC Overload



Aluminum Alloy
Die Casting



MES+FCT+CRM
Infrastructure

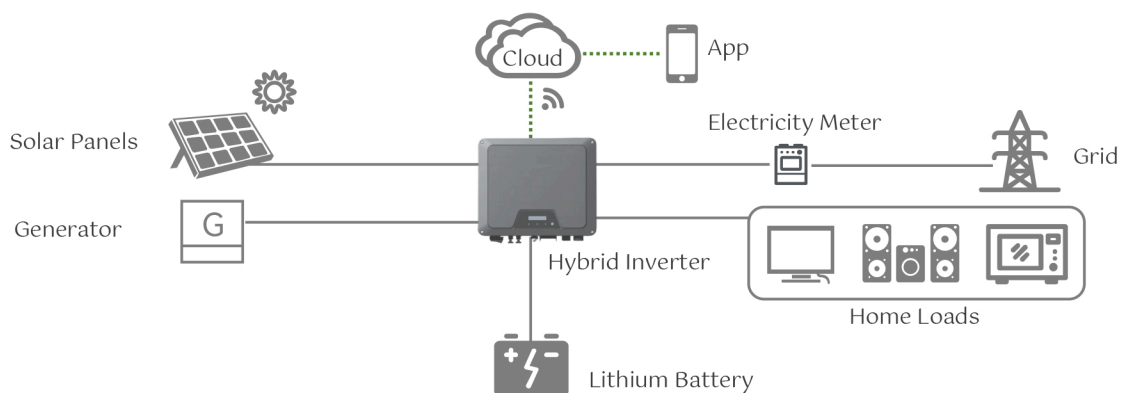


Easy to
Install and Service



Energy
Management

System Diagram



Specifications

| MODEL | PHN5KT-BH2 | PHN6KT-BH2 | PHN8KT-BH2 | PHN10KT-BH2 | PHN12KT-BH2 | PHN15KT-BH2 |
|---|------------------------------------|------------|------------------------------------|-------------|---|-------------|
| INPUT / DC | | | | | | |
| Max. PV Power / Wp | 7500 | 9000 | 12000 | 15000 | 18000 | 22500 |
| Max. Input Voltage / V | 1000 | | | | | |
| MPP Voltage Range / V | 150 – 850 | | | | | |
| Min. Input Voltage / V | 145 | | | | | |
| Nominal DC Input Voltage / V | 620 | | | | | |
| Max. Input Current / A | 15 / 15 | 15 / 15 | 15 / 15 | 15 / 15 | 15 / 15 | 30 / 15 |
| Max. DC Short Circuit Current / A | 20 / 20 | 20 / 20 | 20 / 20 | 20 / 20 | 20 / 20 | 40 / 20 |
| No. of Independent MPPT Inputs | 2 | 2 | 2 | 2 | 2 | 2 |
| No. of PV Strings per MPPT | 1 / 1 | 1 / 1 | 1 / 1 | 1 / 1 | 1 / 1 | 2 / 1 |
| AC OUTPUT / INPUT | | | | | | |
| Rated Power to Grid / W | 5000 | 6000 | 8000 | 10000 | 12000 | 15000 |
| Max. Apparent AC Power to Grid / VA | 5500 | 6600 | 8800 | 11000 | 13200 | 16500 |
| Max. Apparent AC Power from Grid / VA | 10000 | 12000 | 15000 | 15000 | 18000 | 20000 |
| Rated Grid Voltage / Vac | 380 / 400 | | | | | |
| Grid Connection | 3L / N / PE | | | | | |
| Rated Power Frequency / Hz | 50 / 60 | | | | | |
| Max. Output Current to Grid / A | 8.5 | 10 | 13.5 | 16 | 20 | 24 |
| Max. AC Current from Grid / A | 17 | 20 | 23 | 23 | 29 | 29 |
| Power Factor | 0.8 leading ~ 0.8 lagging | | | | | |
| THDi @ Rated Power | <3% | | | | | |
| AC OUTPUT (BACKUP) | | | | | | |
| Rated Power / W | 5000 | 6000 | 8000 | 10000 | 12000 | 12000 |
| Peak Apparent Output Power @ 10s / VA | 10000 | 12000 | 15000 | 15000 | 15000 | 15000 |
| Rated Power Frequency / Hz | 50 / 60 | | | | | |
| Nominal Output Current / A | 8.5 | 10 | 13.5 | 16 | 20 | 20 |
| Automatic Switch Time / ms | <10 | | | | | |
| Nominal Output Voltage / Vac | 380 / 400 | | | | | |
| Nominal Output Frequency / Hz | 50 / 60 | | | | | |
| THDv @ Linear Load | <3% | | | | | |
| BATTERY INPUT | | | | | | |
| Battery Type | Lithium | | | | | |
| Battery Voltage Range / V | 160 – 800 | | | | | |
| Max. Charging / Discharging Current / A | 25 / 25 | | | | | |
| Charging Strategy for Lithium Battery | Self-adaption to BMS | | | | | |
| EFFICIENCY | | | | | | |
| PV Max. Efficiency | 98.00% | 98.00% | 98.20% | 98.20% | 98.20% | 98.50% |
| PV Euro. Efficiency | 97.30% | 97.30% | 97.30% | 97.40% | 97.40% | 97.50% |
| PV Max. MPPT Efficiency | 99.90% | 99.90% | 99.90% | 99.90% | 99.90% | 99.90% |
| Max. Charging Efficiency @ PV->Battery | 98.50% | 98.50% | 98.50% | 98.50% | 98.50% | 98.50% |
| Max. Charge / Discharge Efficiency @Battery<->Load/Grid | 97.60% | 97.60% | 97.60% | 97.60% | 97.60% | 97.60% |
| PROTECTION | | | | | | |
| Anti-islanding Protection | Integrated | | | | | |
| PV Input Reverse Polarity Protection | Integrated | | | | | |
| Insulation Resistance Detection | Integrated | | | | | |
| Residual Current Monitoring | Integrated | | | | | |
| Output Over Current Protection | Integrated | | | | | |
| Output Short Circuit Protection | Integrated | | | | | |
| Over Voltage Protection | Integrated | | | | | |
| Surge Protection | DC Type II / AC Type III | | | | | |
| Battery Reverse Polarity Protection | Integrated | | | | | |
| GENERAL DATA | | | | | | |
| Dimensions (W*H*D) / mm | 425*351*200 | | Communication with CT / Meter | | RS485 | |
| Weight / kg | 23 (PHN15KT) / 20 (for rest) | | Cooling Method | | Smart Cooling (PHN15KT) Natural Cooling (for rest) | |
| Noise Emission Typical / dBA | 40 | | Operating Ambient Temperature / C° | | -25 – +60 | |
| User Interface | LED&LCD | | Relative Humidity | | 0% to 100% | |
| DC Connection Type | MC4 | | Max. Operating Altitude / m | | 2000 (>2000 Derating) | |
| Battery Connection Type | SUNCLIX | | Protection Class (IEC 60529) | | IP65 | |
| AC Connection Type | OT Terminal | | Climatic Category (IEC 60721-3-4) | | 4K4H | |
| Communication with Cloud | RS485 / WiFi / 4G / LAN (optional) | | Topology | | Transformerless | |
| Communication with BMS | CAN/RS485 | | Night Consumption / W | | <13 | |

MAXHUB

scannez ce qr-code pour
retrouver MAXHUB
sur notre site Secondway



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B - 5030 GEMBLoux
&
Bredestraat 4
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