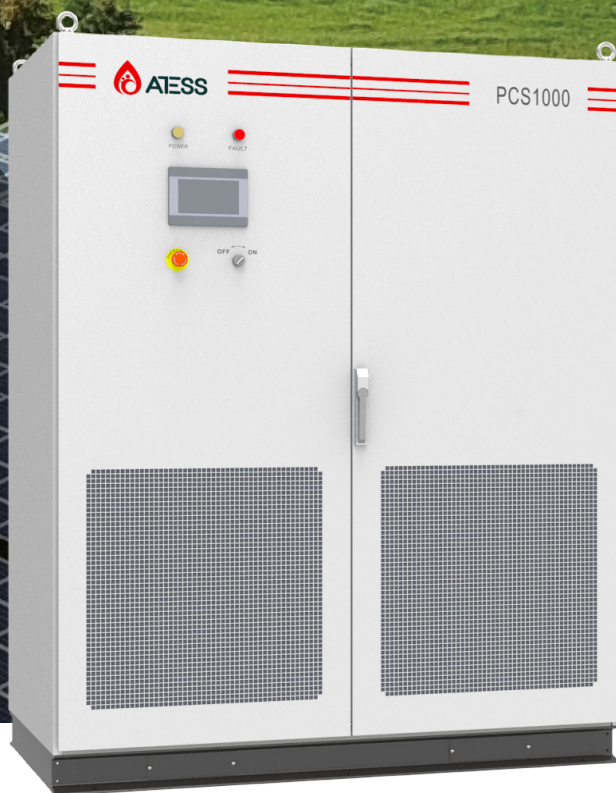


# PCS1000/1000HV

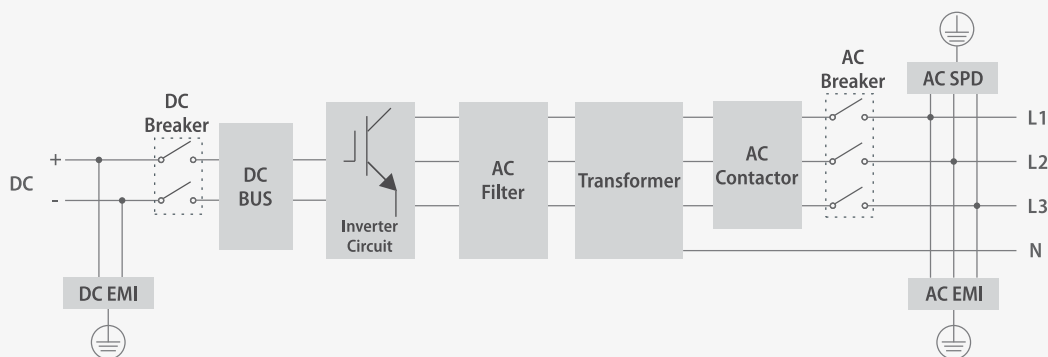
Bidirectional battery inverter from 1000kW, can be used alone or with solar charge controllers and other accessories for different application scenarios.

## Features

-  Programmable working mode
-  Flexible configuration
-  Touchscreen LCD
-  Support remote control of DG
-  Max. 8 units in parallel in off-grid operation



## Block Diagram



|                                                                                                                      | PCS1000                                                                                                       | PCS1000HV                                  |
|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| <b>AC(on-grid)</b>                                                                                                   |                                                                                                               |                                            |
| Apparent power                                                                                                       | 1000kVA                                                                                                       | 1000kVA                                    |
| Rated power                                                                                                          | 1000kW                                                                                                        | 1000kW                                     |
| Rated voltage                                                                                                        | 400V                                                                                                          | 400/540V*                                  |
| Rated current                                                                                                        | 1443A                                                                                                         | 1443A                                      |
| Voltage range                                                                                                        | 360V-440V                                                                                                     | 360V-440V                                  |
| Rated frequency                                                                                                      | 50/60Hz                                                                                                       | 50/60Hz                                    |
| Frequency range                                                                                                      | 46-54/56-64Hz                                                                                                 | 46-54/56-64Hz                              |
| THDI                                                                                                                 | <3%                                                                                                           | <3%                                        |
| PF                                                                                                                   | 0.9 lagging~0.9 leading                                                                                       | 0.9 lagging~0.9 leading                    |
| AC connection                                                                                                        | 3/PE                                                                                                          | 3/PE                                       |
| Max. rectified power                                                                                                 | 750kW                                                                                                         | 1000kW                                     |
| <b>AC(off-grid)</b>                                                                                                  |                                                                                                               |                                            |
| Apparent power                                                                                                       | 1000kVA                                                                                                       | 1000kVA                                    |
| Rated power                                                                                                          | 1000kW                                                                                                        | 1000kW                                     |
| Rated voltage                                                                                                        | 400V                                                                                                          | 400/540V*                                  |
| Rated current                                                                                                        | 1443A                                                                                                         | 1443A                                      |
| THDU                                                                                                                 | ≤2% linear                                                                                                    | ≤2% linear                                 |
| Rated frequency                                                                                                      | 50/60Hz                                                                                                       | 50/60Hz                                    |
| Overload capability                                                                                                  | 110%-10 mins 120%-1 min                                                                                       | 110%-10 mins 120%-1 min                    |
| <b>DC (Battery and PV)</b>                                                                                           |                                                                                                               |                                            |
| Rated power                                                                                                          | 1040kW                                                                                                        | 1000kW                                     |
| Current regulation                                                                                                   | ±1%                                                                                                           | ±1%                                        |
| Voltage regulation                                                                                                   | ±1%                                                                                                           | ±1%                                        |
| Voltage ripple                                                                                                       | <3%                                                                                                           | <3%                                        |
| Current ripple                                                                                                       | <2%                                                                                                           | <2%                                        |
| Voltage range                                                                                                        | 650V-860V                                                                                                     | 900V-1500V                                 |
| Max. charge/discharge current                                                                                        | 1154A/1600A                                                                                                   | 1111A                                      |
| <b>General Information</b>                                                                                           |                                                                                                               |                                            |
| Max. efficiency                                                                                                      | 98.5%                                                                                                         | 98.5%                                      |
| Protection degree                                                                                                    | IP20                                                                                                          | IP20                                       |
| Noise emission                                                                                                       | <65dB(A)@1m                                                                                                   | <65dB(A)@1m                                |
| Operating temperature                                                                                                | -25°C~+55°C                                                                                                   | -25°C~+55°C                                |
| Cooling method                                                                                                       | Forced-air                                                                                                    | Forced-air                                 |
| Relative humidity                                                                                                    | 0-95% non-condensing                                                                                          | 0-95% non-condensing                       |
| Max. altitude                                                                                                        | 5000m(derate over 2000m)                                                                                      | 5000m(derate over 2000m)                   |
| Dimension(W/H/D)                                                                                                     | 1510/1900/850mm                                                                                               | 1510/1900/850mm                            |
| Weight                                                                                                               | 1500kg                                                                                                        | 1400kg                                     |
| Build-in transformer                                                                                                 | No                                                                                                            | No                                         |
| Lightning protection                                                                                                 | Type II                                                                                                       | Type II                                    |
| Transfer between on/off grid                                                                                         | Manual(default), Automatic(optional) ≤10ms                                                                    | Manual(default), Automatic(optional) ≤10ms |
| Grid support                                                                                                         | L/HVRT, FRT, active & reactive power control and power ramp rate control. Volt-var, Volt-watt. Frequency-watt |                                            |
| <b>Communication</b>                                                                                                 |                                                                                                               |                                            |
| Display                                                                                                              | Touch screen                                                                                                  | Touch screen                               |
| Communication                                                                                                        | RS485/CAN                                                                                                     | RS485/CAN                                  |
| <b>Certificate</b>                                                                                                   |                                                                                                               |                                            |
| EN 61000-6-4:2019, EN 55011:2016+A2:2021, EN 61000-6-2:2019, IEC 61000, EN 62920:2017/A1:2021, CISPR 11:2015/A1:2016 |                                                                                                               |                                            |

\*The direct output voltage of PcS1000HV is 540v, and a transformer is required to output 400V or other voltages.