


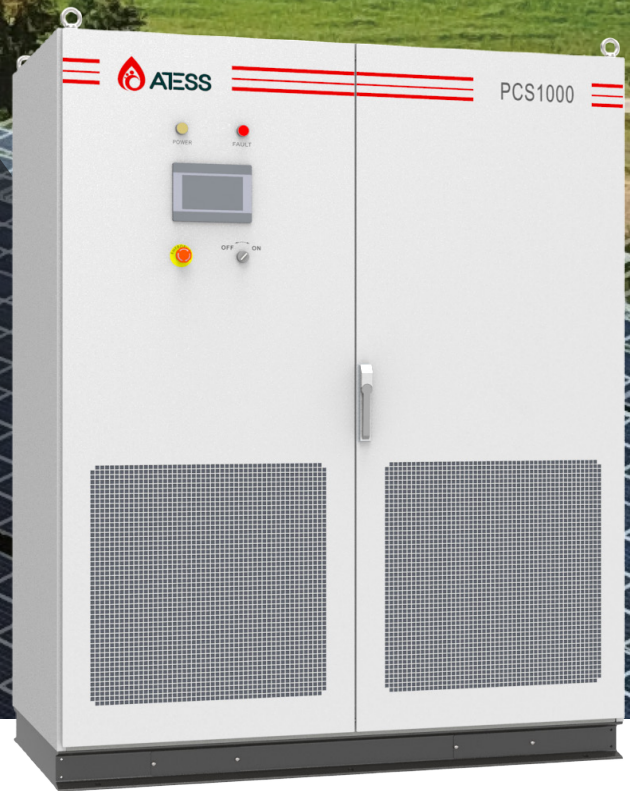


# PCS1000/1000HV

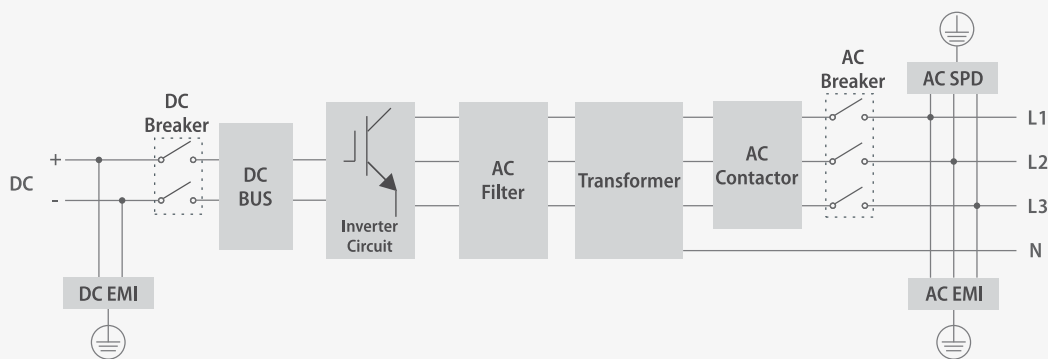
Bidirectional battery inverter from 1000kW, can be used alone or with solar charge controllers and other accessories for different application scenarios.

## Features

-  Paralleling multiple units
-  Programmable working mode
-  Flexible configuration
-  Touchscreen LCD
-  Support remote control of DG



## Block Diagram



**PCS1000****PCS1000HV****AC(on-grid)**

|                      |                         |                         |
|----------------------|-------------------------|-------------------------|
| Apparent power       | 1000kVA                 | 1000kVA                 |
| Rated power          | 1000kW                  | 1000kW                  |
| Rated voltage        | 400V                    | 400V                    |
| 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                  |

**AC(off-grid)**

|                     |                         |                         |
|---------------------|-------------------------|-------------------------|
| Apparent power      | 1000kVA                 | 1000kVA                 |
| Rated power         | 1000kW                  | 1000kW                  |
| Rated voltage       | 400V                    | 400V                    |
| 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 |

**DC (Battery and PV)**

|                               |             |            |
|-------------------------------|-------------|------------|
| 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      |

**General Information**

|                              |   |  |
|------------------------------|---|--|
| 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 |  |

**Communication**

|               |              |              |
|---------------|--------------|--------------|
| Display       | Touch screen | Touch screen |
| Communication | RS485/CAN    | RS485/CAN    |

**Certificate**

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