

# PCS250S/350S-US-480

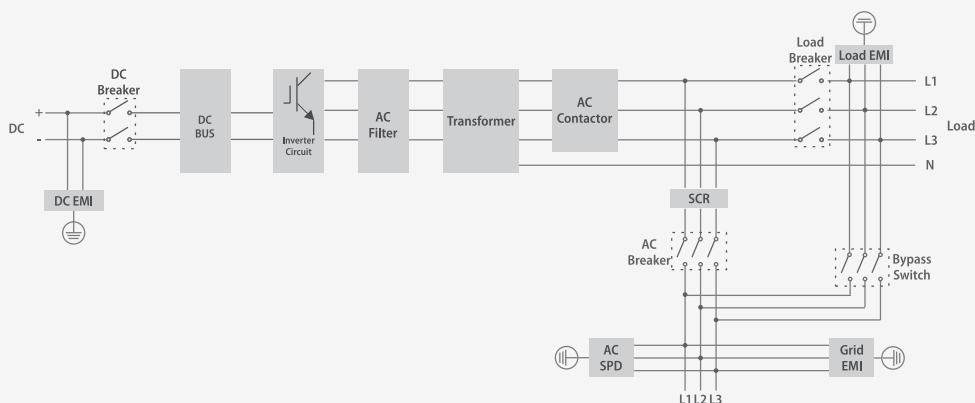
Bidirectional battery inverter from 250kW to 350kW with built-in STS function, can be used alone or with solar charge controllers and other accessories for different application scenarios. No need for extra bypass cabinet for grid/off-grid switch.

## Features

-  Built-in STS
-  Seamless on/off grid transfer within 10 ms
-  Flexible configuration
-  Touchscreen LCD
-  Support remote control of DG
-  Programmable working mode
-  Max. 8 units in parallel for on&off grid operation



## Block Diagram



**PCS250S-US-480****PCS350S-US-480****AC(on-grid)**

|                      |                         |                         |
|----------------------|-------------------------|-------------------------|
| Apparent power       | 250KVA                  | 350KVA                  |
| Rated power          | 250KW                   | 350KW                   |
| Max.AC input         | 375KW                   | 525KW                   |
| Rated voltage        | 480Vac                  | 480Vac                  |
| Rated current        | 301A                    | 421A                    |
| Voltage range        | 432V-528V               | 432V-528V               |
| Rated frequency      | 50/60Hz                 | 50/60Hz                 |
| Frequency range      | 45~55/55~65Hz           | 45~55/55~65Hz           |
| THDI                 | <3%(@Pac,r)             | <3%(@Pac,r)             |
| PF                   | 0.8 lagging~0.8 leading | 0.8 lagging~0.8 leading |
| AC connection        | 3/N/PE                  | 3/N/PE                  |
| Max. rectified power | 250KW                   | 350KW                   |

**AC(off-grid)**

|                      |                         |                         |
|----------------------|-------------------------|-------------------------|
| Apparent power       | 250KVA                  | 350KVA                  |
| Rated power          | 250KW                   | 350KW                   |
| Rated voltage        | 480Vac                  | 480Vac                  |
| Rated current        | 301A                    | 421A                    |
| 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 |
| Max. rectified power | 250KW                   | 350KW                   |

**DC (Battery and PV)**

|                               |           |           |
|-------------------------------|-----------|-----------|
| Rated power                   | 250KW     | 350KW     |
| Current regulation            | ±1%       | ±1%       |
| Voltage regulation            | ±1%       | ±1%       |
| Voltage ripple                | <3%       | <3%       |
| Current ripple                | <2%       | <2%       |
| Voltage range                 | 600V-900V | 600V-900V |
| Max. charge/discharge power   | 275KW     | 358KW     |
| Max. charge/discharge current | 458A      | 641A      |

**General Information**

|                              |                                               |                                               |
|------------------------------|-----------------------------------------------|-----------------------------------------------|
| Max. efficiency              | 97.30%                                        | 97.50%                                        |
| 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                                    |
| Standby consumption          | <100W                                         | <100W                                         |
| Relative humidity            | 0-95% non-condensing                          | 0-95% non-condensing                          |
| Max. altitude                | 6000m(derate above 3000m)                     | 6000m(derate above 3000m)                     |
| Dimension(W/H/D)             | 1400/1900/850mm                               | 1400/1900/850mm                               |
| Weight                       | 1460kg                                        | 1524kg                                        |
| Build-in transformer         | Yes                                           | Yes                                           |
| Build-in STS                 | Yes                                           | Yes                                           |
| Lightning protection         | Type II                                       | Type II                                       |
| Transfer between on/off grid | Manual(default), Automatic(optional)<br>≤10ms | Manual(default), Automatic(optional)<br>≤10ms |

**Communication**

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