

# PCS250S/350S-US-480

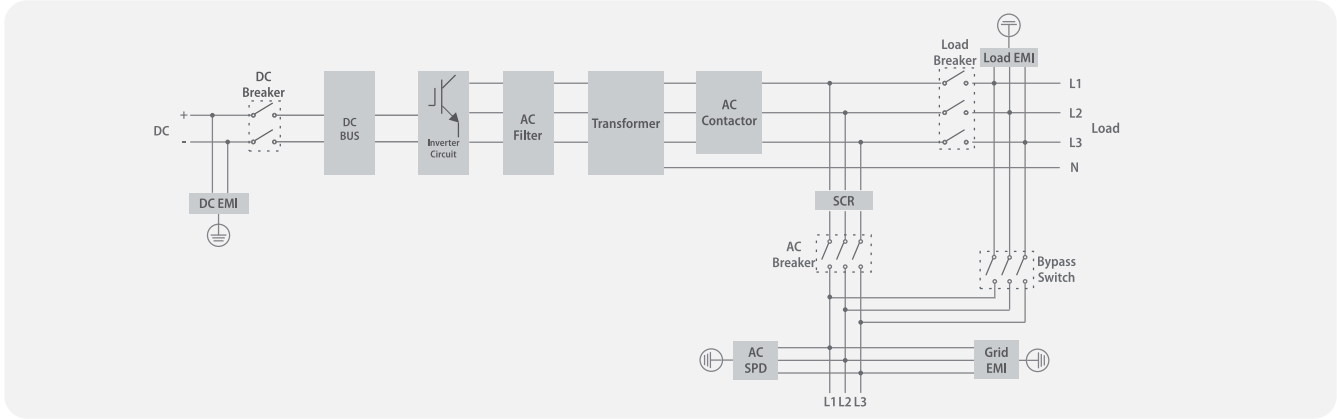
Bidirectional battery inverter from 250kW to 350kW with built-in STS function, can be used alone or with solar charge controllers and other accessories for different application scenarios. No need for extra bypass cabinet for grid/off-grid switch.

## 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 regulatoion           | ±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                | <75dB(A)@1m                                   | <75dB(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                                     |