

# Zeus String Solar Inverter

RCM 275-TP-M-HV



### More power generation

- Max. efficiency 99.03%, Euro efficiency 98.80%
- 12MPPTs for tracking maximum PV power
- Supports bifacial PV modules with max. PV current 20A



### Low system cost

- Up to 24 PV strings
- Support aluminum cable access, saving cable costs



### High reliability

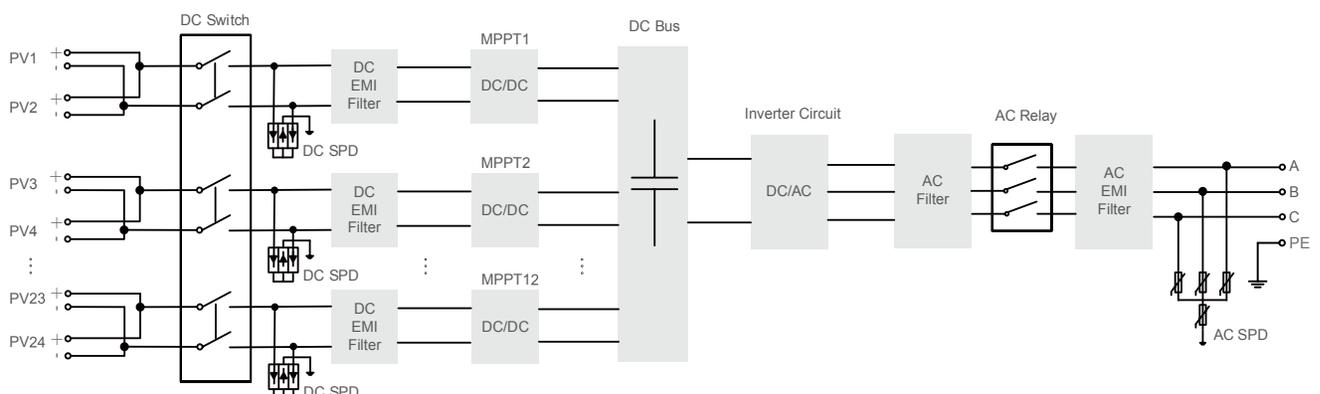
- Cooling fan with IP68 protection level
- Integrated string monitoring function
- Standard connection terminal for quick installation



### Grid friendly

- Active power derating and reactive power adjustable
- Low harmonics and fast response for grid regulation

## Circuit



## TECHNICAL PARAMETERS

| Input (DC)                                | RCM 275-TP-M-HV                           |
|---|---|
| Max. PV input voltage                     | 1500V                                     |
| MPPT Max. input current                   | 40A*12                                    |
| MPPT Max. short-circuit current           | 60A*12                                    |
| Min. start-up DC voltage                  | 600V                                      |
| Rated input voltage                       | 1080V                                     |
| MPP voltage range                         | 500~1500V                                 |
| MPP voltage range for nominal power       | 880~1300V                                 |
| Number of MPPT trackers                   | 12  |
| Max. number of PV strings per MPPT        | 2   |
| Output (DC)                               |   |
| Rated output power                        | 275kW@30°C, 250kW@45°C, 225kW@50°C        |
| Max. output power                         | 275kW                                     |
| Rated grid voltage                        | 800V                                      |
| Grid voltage range                        | 680~880V                                  |
| Max. output current                       | 198.5A                                    |
| Rated grid frequency / range              | 50Hz/45~55Hz, 60Hz/55~65Hz                |
| Output current harmonic(at nominal power) | <3%                                       |
| Power factor at nominal power / range     | >0.99/0.8 leading to 0.8 lagging          |
| DC injection                              | <3%                                       |
| Protection                                |   |
| DC reverse connection protection          | Yes                                       |
| Overvoltage protection                    | DC Type II/AC Type II                     |
| Leakage current protection                | Yes                                       |
| Grid monitoring                           | Yes                                       |
| Insulation monitoring                     | Yes                                       |
| Anti-island protection                    | Yes                                       |
| Efficiency                                |   |
| Max. Efficiency                           | 99,03%                                    |
| EU efficiency                             | 98,80%                                    |
| General Data                              |   |
| Isolation method                          | Transformerless                           |
| Self-consuming in night                   | <3.5W                                     |
| Protection level                          | IP66                                      |
| Noise                                     | <60dB                                     |
| Temperature                               | - 30°C~+ 60°C                             |
| Allowed humidity(non condensing)          | 0-100%                                    |
| Cooling mode                              | Temperature controlled forced air cooling |
| Max.operating altitude                    | 5000m (>4000m derating )                  |
| Communication port                        | Standard:PLC, RS485                       |
| Dimensions (W×H×D)                        | 1180×733×350mm                            |
| Weight                                    | 130kg                                     |
| AC cabling cross section                  | 70 to 300 mm <sup>2</sup>                 |
| DC cabling cross section                  | 4 to 6 mm <sup>2</sup>                    |
| Communication cabling                     | 1 to 1,5 mm <sup>2</sup>                  |
| Warranty                                  | 5 years                                   |