

# EP-9600-HA-UD/20~35, EP-9400-HB-UD/20~35

## MV Turnkey Solution for 1500V Utility PV Plant



### More power generation

- Inverter Max. efficiency 99%, Euro efficiency 98.7%
- 1500Vdc PV system reduce power loss
- High DC/AC ratio up to 1.8



### Low system cost

- Convenient for large block size PV plant
- Integrated MV transformer and switchgear
- Night SVG function optional



### High reliability

- Key components at front side, easy for maintenance
- Current sensor for each DC input, more reliable for monitoring and control



### Grid friendly

- Adjustable reactive power
- Low harmonics and fast response for grid regulation



| Model                                      | EP-9600-HA-UD/20~35                                  |              | EP-9400-HB-UD/20~35 |
|--------------------------------------------|------------------------------------------------------|--------------|---------------------|
| Input (DC)                                 |                                                      |              |                     |
| Max. PV input voltage                      | 1500V                                                |              |                     |
| MPP voltage range                          | 915V~1500V                                           | 938V~1500V   |                     |
| Min. input voltage                         | 915V                                                 | 938V         |                     |
| Max. input current                         | 4*3078A                                              | 4*3068A      |                     |
| Number of MPPT trackers                    | 4                                                    |              |                     |
| Number of DC inputs                        | 40~64                                                |              |                     |
| Output (AC)                                |                                                      |              |                     |
| Rated AC output power                      | 4*2400kW                                             |              |                     |
| Max. AC output power                       | 4*2760kW                                             | 4*2820kW     |                     |
| AC voltage                                 | 20~35kV                                              |              |                     |
| Rated grid frequency                       | 50Hz/60Hz                                            |              |                     |
| Grid frequency range                       | 45~55Hz, 55~65H                                      |              |                     |
| Output current harmonic (at nominal power) | < 3%                                                 |              |                     |
| DC current injection                       | <0.5% (nominal power)                                |              |                     |
| Power factor range                         | 0.8 lagging to 0.8 leading                           |              |                     |
| Efficiency                                 |                                                      |              |                     |
| Max. efficiency                            | > 99% (inverter)                                     |              |                     |
| EU efficiency                              | > 98.7% (inverter)                                   |              |                     |
| Transformer                                |                                                      |              |                     |
| DC input protection                        | Load break switch+fuse                               |              |                     |
| AC MV output protection                    | Load break switch/Circuit breaker                    |              |                     |
| DC/AC over voltage protection              | Yes                                                  |              |                     |
| Grid monitoring                            | Yes                                                  |              |                     |
| Ground fault detection                     | Yes                                                  |              |                     |
| Anti-PID function                          | Optional                                             |              |                     |
| Night SVG function                         | Optional                                             |              |                     |
| General Data                               |                                                      |              |                     |
| LV/MV Voltage                              | 0.63/20~35kV                                         | 0.66/20~35kV |                     |
| Weight                                     | 40t                                                  |              |                     |
| Protection level                           | Inverter: IP65, Others: IP54                         |              |                     |
| Temperature                                | -30℃ ~ +60℃                                          |              |                     |
| Humidity (non condensing)                  | 0~100%                                               |              |                     |
| Max. operating altitude                    | > 2000m, transformer need to adjust                  |              |                     |
| Cooling method                             | Temperature controlled forced air cooling (inverter) |              |                     |
| Communication port                         | RS485/Ethernet                                       |              |                     |

## Circuit Diagram

