

EP-3600/3750-HAN-UD/10~35

MV Turnkey Solution for 1500V Utility PV Plant

More power generation

- Inverter Max. efficiency 98.9%, CEC efficiency 98.5%
- 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 LV auxiliary power supply
- Night SVG function optional

High reliability

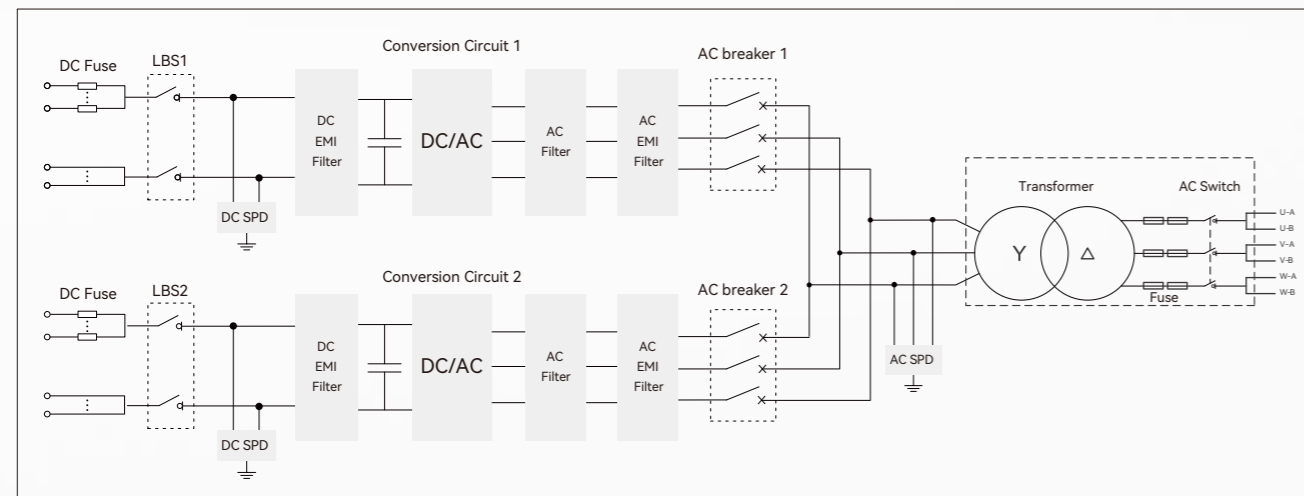
- Outdoor design, suitable for all harsh environments
- Current sensor for each DC input, more reliable for monitoring and control

Grid friendly

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



Circuit Diagram



| Model | EP-3600-HAN-UD/10~35 | EP-3750-HAN-UD/10~35 |
|---|---|--------------------------|
| Input (DC) | | |
| Max. PV input voltage | 1500V | |
| Max. input current | 4015A | 4049A |
| MPP voltage range | 915~1300V | 958~1300V |
| Number of MPPT trackers | 2 | |
| Number of DC inputs | 22(400A&315A)/18(500A&550A&630A) | |
| Output (AC) | | |
| AC output power | 3600kW@40°C, 3240kW@50°C | 3750kW@40°C, 3375kW@50°C |
| Rated grid frequency/range | 60Hz/55~65 Hz | |
| Output current harmonic(at nominal power) | < 3% | |
| DC current injection | < 0.5% I _n | |
| Power factor at nominal power/range | >0.99/ 0.8 lagging to 0.8 leading | |
| Protection | | |
| DC input protection | Load break switch+fuse | |
| AC output protection | Circuit breaker | |
| AC MV output protection | Load break switch+fuse | |
| Overvoltage protection | DC Type II / AC Type II | |
| Leakage current monitoring | Yes | |
| Grid monitoring/Ground fault monitoring | Yes/Yes | |
| Insulation monitoring | Yes | |
| Overheat protection | Yes | |
| Night SVG function | Yes | |
| Anti-PID function | Yes | |
| Inverter efficiency | | |
| Inverter Max. efficiency | 98.90% | |
| Inverter CEC efficiency | 98.50% | |
| Transformer | | |
| Transformer rated power | 3600kVA | 3750kVA |
| Transformer max. power | 3600kVA | 3750kVA |
| LV / MV Voltage | 0.63/10~34.5kV | 0.66/10~34.5kV |
| Transformer vector group | Dy11 | |
| Transformer cooling type | KNAN | |
| General Data | | |
| Protection level | NEMA 4X(Electronic for inverter)/ NEMA 3R(Others) | |
| Auxiliary power supply | Standard: 5kVA, Optional: max. 40kVA | |
| Temperature | -30 ~ + 60°C(>40°C derating) | |
| Relative humidity | 0~100 % | |
| Cooling method | Temperature controlled forced air cooling | |
| Max.operating altitude | 1000m | |
| Display | LCD | |
| Communication port | RS485/Ethernet, Optional: optical fiber | |
| Dimension(W*H*D) | 6058*2896*2438mm | |
| Weight | 18t | |