

# EH Series

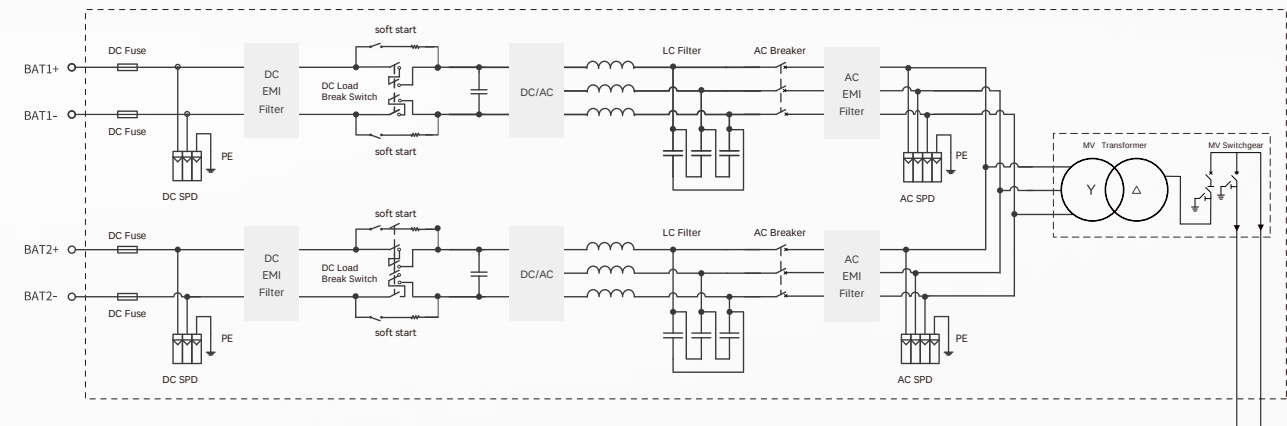
## Turnkey Station With MV Transformer Integrated (Central PCS, 1500V)

### Features

- PCS Max. efficiency up to 99%
- Full reactive power four-quadrant capability
- Support VSG function
- Millisecond-level power response to EMS/SCADA
- IP65 protection for PCS, IP54 for MV station
- Black start ability
- Two DC branch inputs
- Designed for frozen scenario with -40°C option



### Circuit Diagram



| Model                       | EH-3450-HA-UD-35                                    |  | EH-4000-HA-UD-35           |  |
|-----------------------------|-----------------------------------------------------|--|----------------------------|--|
| DC Parameters               |                                                     |  |                            |  |
| Max. DC voltage             | 1500V                                               |  |                            |  |
| Max. DC current             | 3872A                                               |  | 4490A                      |  |
| Battery voltage range       | 1000 ~ 1500V                                        |  |                            |  |
| Number of DC inputs         | 2                                                   |  |                            |  |
| AC parameters (On-Grid)     |                                                     |  |                            |  |
| AC Output power             | 3794kVA@35°C, 3450kVA@45°C                          |  | 4400kVA@35°C, 4000kVA@45°C |  |
| PCS AC voltage range        | 607~759V (Adjustable)                               |  |                            |  |
| PCS Max. AC current         | 3174A                                               |  | 3680A                      |  |
| PCS Max. AC current         | 3176A@30°C, 2886A@45°C                              |  | 3682A@30°C, 3346A@45°C     |  |
| Nominal grid frequency      | 50/60Hz                                             |  |                            |  |
| Harmonic (THDi)             | <1.5% (100% load)                                   |  |                            |  |
| Power Factor                | -1 ~ +1                                             |  |                            |  |
| AC parameters (Off-Grid)    |                                                     |  |                            |  |
| PCS Nominal AC voltage      | 690V, 3W+PE                                         |  |                            |  |
| PCS AC voltage range        | 607~759V (Adjustable)                               |  |                            |  |
| AC voltage distortion       | <1.5% (100% linear load)                            |  |                            |  |
| DC voltage component        | <0.5% Un (Linear balance load)                      |  |                            |  |
| Unbalanced load capacity    | 100%                                                |  |                            |  |
| Nominal grid frequency      | 50/60Hz                                             |  |                            |  |
| Transformer                 |                                                     |  |                            |  |
| Isolation mode              | Oil-Immersed Transformer                            |  |                            |  |
| Transformer rated power     | 3794kVA@35°C,3450kVA@45°C                           |  | 4400kVA@35°C,4000kVA@45°C  |  |
| LV/MV voltage               | 0.69kV/35kV (10kV~35kV Optional)                    |  |                            |  |
| Transformer vector          | Dy11                                                |  |                            |  |
| Transformer cooling type    | ONAN (Optional: KNAN)                               |  |                            |  |
| Oil type                    | Mineral oil (PCB free) or degradable oil on request |  |                            |  |
| General Data                |                                                     |  |                            |  |
| PCS Max. efficiency         | 99%                                                 |  |                            |  |
| PCS European efficiency     | 98.5%                                               |  |                            |  |
| Ingress protection rating   | IP54                                                |  |                            |  |
| Operating temperature range | -40~+60 °C (>45°C derating)                         |  |                            |  |
| Relative humidity           | 0~100% (no condensing)                              |  |                            |  |
| Max. altitude               | 5000m (>2000m derating)                             |  |                            |  |
| Cooling method              | Forced air cooling                                  |  |                            |  |
| Communication port          | RS485/CAN/Ethernet                                  |  |                            |  |
| Dimensions (W*D*H)          | 6058×2438×2896mm                                    |  |                            |  |
| Weight                      | 17000kg                                             |  | 18000kg                    |  |