

# EH Series

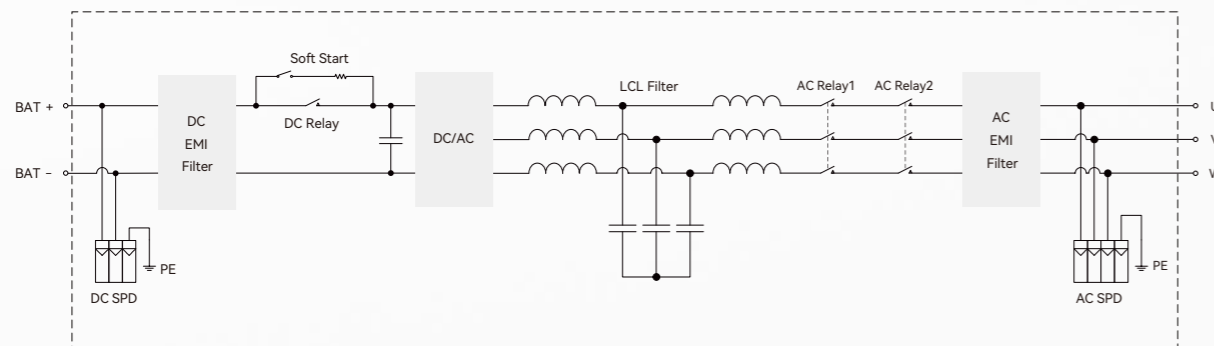
## Power Conversion System (String PCS, 1500V)

### Features

- Charge/discharge each cluster independently
- Fast Plug and play, easy expansion
- C5M anti-corrosion grade
- Parallel in AC side (Max. 40 set)
- Grid-forming/black start capability
- Safe and reliable, NEMA TYPE 4X protection
- Modular Design Philosophy
- No need advanced technical service personnel
- Horizontal and vertical mounting thermal design
- With UL1741 SB certification



### Circuit Diagram



| Model                           | EH-0200-HA-M-US                       | EH-0215-HA-M-US                           |
|---------------------------------|---------------------------------------|---|
| <b>DC parameters</b>            |                                       |   |
| Max. DC voltage                 | 1500V                                 |   |
| Max. DC current                 | 224.5A                                | 241.3A                                    |
| Battery voltage range           | 1000 ~ 1500V                          |   |
| Number of DC input              | 1                                     |   |
| <b>AC parameters (On-Grid)</b>  |                                       |   |
| AC Output power                 | 220kVA@35°C, 200kVA@45°C, 180kVA@50°C | 236.5kVA@35°C, 215kVA@45°C, 193.5kVA@50°C |
| Nominal AC voltage              | 690V, 3W+PE                           |   |
| AC voltage range                | 607~759V (Adjustable)                 |   |
| Max. AC output current          | 184.1A@35°C, 167.4A@45°C, 150.6A@50°C | 197.9A@35°C, 179.9A@45°C, 161.9A@50°C     |
| Nominal grid frequency          | 60Hz                                  |   |
| Harmonic (THDi)                 | <1.5% (100% load)                     |   |
| Power Factor                    | -1 ~ +1                               |   |
| <b>AC parameters (Off-Grid)</b> |                                       |   |
| Nominal AC voltage              | 690V, 3W+PE                           |   |
| 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          | 60Hz                                  |   |
| <b>General Data</b>             |                                       |   |
| Isolation mode                  | Transformerless                       |   |
| Max. efficiency                 | 98.80%                                |   |
| CEC efficiency                  | 98.50%                                |   |
| Ingress protection rating       | TYPE 4X                               |   |
| Operating temperature range     | -40~+60°C (>45°C derating)            |   |
| Relative humidity               | 0~100% (no condensing)                |   |
| Max. altitude                   | 4000m (>3000m derating)               |   |
| Cooling method                  | Forced air cooling                    |   |
| Communication port              | RS485/CAN/Ethernet                    |   |
| Dimensions (W*D*H)              | 810×275×845mm                         |   |
| Weight                          | 98kg                                  |   |