Midea Industrial Tech.

# MV-PCS Skid

- Up to 98% efficiency with transformer
- Support VSG, VF, PQ operation modes
- Wide range of DC operating voltage, 1500V full load operation
- Modular design, easy installation
- Real-time active/reactive power scheduling & LVRT/HVRT function

| Technical Data | NEPCSO-2500-MV | NEPCSO-5000-MV |
|---|---|---|
| **AC side** | | |
| Nominal power | 2500 kW | 5000 kW |
| Max capacity | 2750 kVA | 5500 kVA |
| Nominal LV voltage | 630 V | 690 V |
| Nominal current | 2292 A | 4184 A |
| Rated grid frequency | 50 Hz/60 Hz | |
| Frequency range | 45~55 Hz/55~65 Hz | |
| Power factor | (-0.99, 0.99) | |
| Overload capacity | 110 % Pn Long-term 120 % Pn (<1min) | |
| Nominal power charge-discharge conversion time | < 20 ms | |
| **DC side** | | |
| Full power DC voltage range | 1000~1500 V | 1100~1500 V |
| Number of DC input channels | 2 input channels | |
| **MV transformer and switchgear** | | |
| Nominal capacity | 2500 kVA | 5000 kVA |
| MV/LV voltage | 10~35 kV/0.69 kV | |
| Transformer vectors | Dy11 | |
| MV switchgear | RMU with 3 cubicles (2 cable cubicles with load-break switch, 1 transformer cubicle with circuit breaker), or without RMU (US version) | |
| **System parameter** | | |
| Max. PCS efficiency | 99.0 % | |
| Dimensions (W*H*D) | 6058*2600*2500 mm | 9000*2896*2800 mm |
| Max. operating altitude | 4000 m (> 2000 m derated) | |
| Degree of protection | IP54 | |
| Operation temperature | - 35 ℃ to + 55 ℃ (> 45 ℃ derated) | |
| Storage temperature | - 40 ℃ to + 70 ℃ | |
| Cooling method | Forced air cooling | |
| Allowable relative humidity range | 0 % to 95 % (non-condensing) | |
| Communication interface | Ethernet, RS485, CAN2.0 | |