



Midea Energy



NEPCSO-1250UD

Applications

- Renewable power plant integration (ramp rate control, energy shifting)
- Grid ancillary control (frequency regulation, peak shaving)
- Distributed network and micro-grid (peak shaving, autonomous operation)

Grid Support

- Equipped with PQ, VF, SVG, VSG and other functions
- Supporting low/high voltage ride through (L/HVRT)

Great Performance

- High power density, excellent heat dissipation, ensuring stable operation of equipment
- Comprehensive detections and protections, ensuring the reliable operation of equipment
- Compatible with a variety of communication protocols

Easy O&M

- Integrated monitoring function and fast troubleshooting
- Modular design, easy to maintain

Parameter		NEPCSO-1250UD (IEC version)
DC-side		
DC voltage range		1000 V-1500 V
Max. DC voltage		1500 V
Max. DC current		1323 A
AC-side (on-grid)		
Rated power		1250 kW @ 45°C
Max. AC output power		1375 kW @ 30°C
Rated AC voltage		690 V AC, 3W + PE
AC voltage range		587–759 V
Rated grid frequency		50 Hz/60 Hz
Grid frequency range		45–55 Hz/55–65 Hz
Max. AC current		1151A @ 30°C
AC current THD (THDi)		< 3% (at rated power)
Power factor		> 0.99 (at rated power)
AC-side (off-grid)		
Rated AC voltage		690 V, 3W + PE
AC voltage range		587–759 V
AC voltage THD (THDu)		< 3% (linear load)
DC voltage component		< 0.5% Un (linear balance load)
Unbalanced load capacity		100% unbalanced load
Rated grid frequency		50 Hz/60 Hz
Efficiency		
Max. efficiency/CEC efficiency		99%
Protection		
DC breaker		Supported
DC fuse		Supported
AC breaker		Supported
AC overcurrent protection		Supported
Insulation impedance detection		Supported
General parameters		
Dimensions (W × D × H)		700 mm × 1300 mm × 2328 mm
Weight (approx.)		≤1050 kg
Operating ambient temperature range		–35°C to +60°C (> 45°C derating)
Relative humidity range		0–100% (non-condensing)
Parameter		
Max. operating altitude		5000 m (> 3000 m derating)
Ingress protection (IP) rating		IP65 (electronic cavity), IP55 (main air duct)
Anti-corrosion degree		C4 , C5 (optional)
Cooling method		Forced air cooling
Isolation mode		Non-isolated type (transformer external)
Communication interface		RS485, CAN, Ethernet, Fiber (optional)
Communication protocol		Modbus TCP, IEC 104, IEC 61850
Standard compliance		EN 50549, IEC 62477, IEC 61000