



Midea Energy



NEPCSO-10000-MV-UD

Modular Design & Easy Maintenance

- Modular architecture for simplified maintenance.
- Less than 1.5 hours for rapid recovery and restart.

Flexible Power Dispatching

- Fast power scheduling with off-grid operation capability.
- Black start function for stronger grid adaptability.

Comprehensive Grid Compatibility

- Supports PQ, VF, SVG, VSG functions.
- Withstands high/low voltage ride-through and operates stably under weak grid conditions ($SCR \geq 1.5$).

Intelligent Cooling & Wide Temperature Operation

- Intelligent multi-level cooling regulation.
- Reliable operation across a wide temperature range for diverse environments.

Model	NEPCSO-10000-MV-UD
DC-side parameter	
Max. DC voltage	1500 V
Max. DC current	1323A*8
DC voltage range	1000 V–1500 V
Number of DC inputs	8
AC-side (on-grid) parameter	
Nominal power	10000 kVA@45°C 11000kVA@30°C
PCS nominal AC voltage	690 V (3P+PE)
PCS AC voltage range	586.5V–759V (adjustable)
PCS Max. AC current	1151 A*8@30°C 1046 A*8@45°C
Nominal grid frequency	50 Hz, 60 Hz
Current THD (THD-I)	<3% (at rated power)
Power factor	> 0.99 (at rated power)
AC-side (off-grid) parameter	
PCS nominal AC voltage	690 V (3P+PE)
PCS AC voltage range	586.5V–759V (adjustable)
AC voltage distortion	<3% (linear load)
DC voltage component	<0.5% Un (linear balanced load)
Unbalanced load capacity	100% unbalanced load
Nominal grid frequency	50 Hz, 60 Hz
Transformer parameter	
Isolation mode	Oil-immersed transformer (dual-split)
Rated power	10050kVA@45°C
LV/MV voltage	LV: 0.6kV/0.69kV MV: 35kV (10kV–35kV, optional)
Vector group	Dy11y11
Cooling type	ONAN, KNAN (optional)
Oil type	Mineral oil (no PCB), degradable oil (optional)
General data	
PCS Max. efficiency	99%
Ingress protection (IP) rating	IP54
Operating ambient temperature range	-35°C to +55°C (> 45°C derating)
Relative humidity range	0–100% RH (non-condensing)
Max. operating altitude	1000m,2000m (optional)
Cooling method	Forced air cooling
Dimension (W*H*D)	12192*2896*2438 mm
Weight	≤ 40t
Communication manner	RS485, CAN, Ethernet, optical fiber
Communication protocol	Modbus TCP, IEC104, IEC61850
Compliance	EN50549, IEC62477, IEC61000, IEC62271-202, IEC61439