Midea Industrial Tech.

NEPCSO-1250/1750

NEPCSO-2500

Power Conversion System

High Efficiency

- ANPC three-level topology

Grid Adaptability

- Fast response to on and off grid; Power response time < 20ms

Safe and Reliable

- IP65 protection level
- Full electric protection function

Flexible Application

- Compact design

Technical Data	NEPCSO-1250	NEPCSO-1750	NEPCSO-2500
AC side			
AC access mode (isolation mode)	Three-phase three-wire (without isolation)		
Nominal power	1250 kW	1750 kW	2500 kW
Max capacity	1375 kVA	1925 kVA	2750 kVA
Nominal grid voltage	630 V	690 V	
Nominal current	1146 A	1465 A	2092 A
Nominal 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			
Maximum power	1403 kW	1965 kW	2805 kW
Full power DC voltage range	935~1500 V	1000~1500 V	1100~1500 V
Maximum operating current	1500 A	1965 A	2550 A
Voltage regulation accuracy/voltage ripple	± 1 %/< 1 %		
Current regulation accuracy/current ripple	± 2 %/< 2 %		
System parameter			
Max efficiency	99.0 %		
Dimensions (W*H*D)	1100*2500*1500 mm	1500*2600*1600 mm	
Maximum operation altitude	4000 m (> 2000 m Derated)		
Degree of protection	IP65 (Power converter room), IP55 (other)		
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)		
Compliance	CE, IEC 62477-1, IEC 61000-6-2, IEC 61000-6-4, IEEE 1547, UL 1741		
Communication interfaces	Ethernet, RS485, CAN2.0		