

# 1000V String Power Conversion System

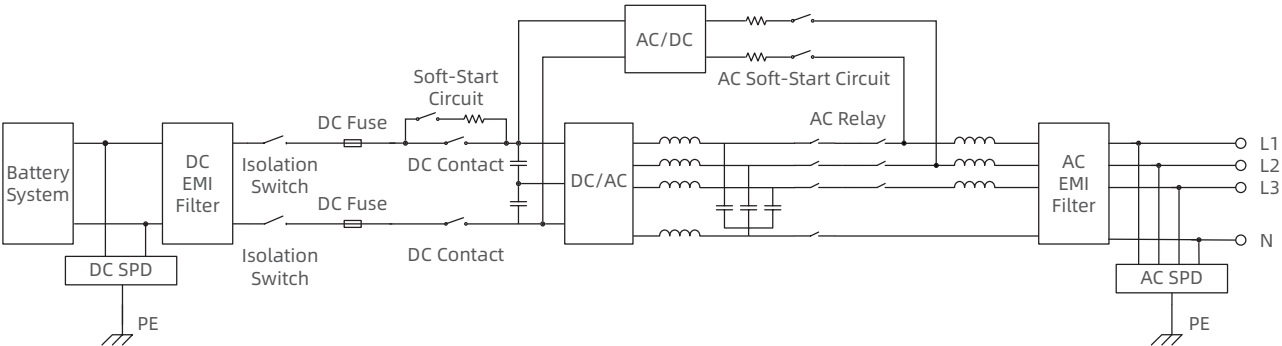
## ESNV Series



### FEATURES

- Highly Integrated design with battery rack high voltage box
- Three-level technology
- Three-phase four-leg design, support 100% unbalanced load
- IP66 protection degree for harsh environment
- Supports multi-module parallel connection, enabling accurate management of battery
- PQ, VSG and other functions

### TOPOLOGY DIAGRAM



# PARAMETERS

Rated Power		130kW
DC Input	DC Voltage Range	650V~950V
	Max. DC Current	230A
AC Output	Rated Power	130kW
	Max. Output Power	143kW
	Reactive Power Range	0~136.5kvar
	AC Connection	3W+N+PE
	Isolation	Non-isolation
On-Grid	Rated Grid Voltage	400V
	Voltage Range	340V~440V
	Rated Grid Frequency	50Hz / 60Hz
	Frequency Range	46.5Hz~51.5Hz / 56.5Hz~61.5Hz
	THDi	<3% (At rated power)
	Power Factor	-1~1
	Charge-Discharge Conversion Time	<20ms
Off-Grid	Rated Output Voltage	400V
	Voltage Imbalance	<2%, No more than 4% in a short period of time
	THDu	<3% (No load or rated resistive load)
	Voltage Transient Range	<30% Within 100ms, <10% After 100ms <10% (Resistive load/balanced load. Load change suddenly from 20% to 100% or from 100% to 20%)
	Overvoltage Protection	Settable value
	Undervoltage Protection	Settable value
General Data	Ground System	TT / TN
	Max. Efficiency	99%
	Operating Ambient Temperature Range	-40°C~+60°C (Derating above 45°C)
	Allowable Relative Humidity Range	0~95%
	Allowable Altitude Range	<4000m (Derating above 3000m)
	Noise Level	70dB
	Anti-Corrosion Degree	C4 (C5 is optional)
	Surge Protection	Type II Surge Protective Device (8 / 20μs)
	Wiring Method	Quick plug terminal
	Protection Degree	IP66
	Indicator	LED indicator
	Communication Interface	Ethernet, RS485, CAN
	Communication Protocol	Modbus TCP / RTU, CAN
	Dimensions (W*H*D)	807*643*267mm (Excludes hanging board)
Weight	Approx. 85kg (Net weight)	