

Product Features

High Integration

- 1500Vdc liquid-cooled PV inverter integration.
- 20~35kV inverter & step-up system.
- Intelligent substation control unit for fast comms.

Stable and Reliable

- Smart liquid & air cooling for reliability.
- 24h AC/DC insulation check.
- 40-ft container for stable structure.

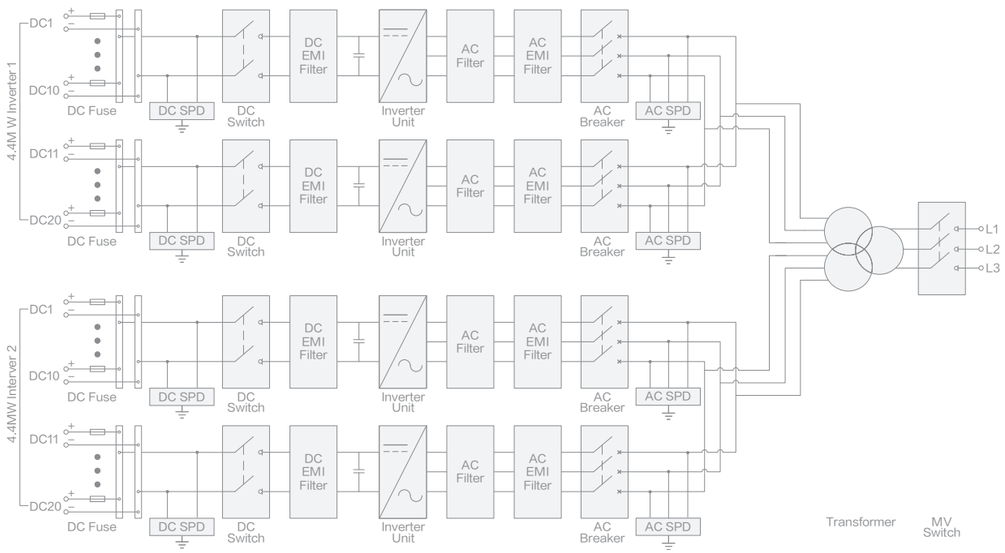
Lean Intelligence

- Unified interface for quick setup.
- Data collection & fiber net for smart op.
- AC-DC Terminal Temp. Detect. & Prot.

Investment Savings

- Inverter-transformer integration cuts costs.
- 40-ft container saves on transport & install.
- Night SVG reduces station costs.

Circuit Diagram



Technical Specifications

Product Model	SPI8800K-B-HUD/T
DC Input (PV)	
Max. PV input voltage	1500Vdc
Startup input voltage	905Vdc
MPP voltage range	895~1500Vdc
No. of MPP inputs	2×2
No. of DC inputs	2×(20~22 optional)
Max. PV input current	2×5518A
AC Output (On-grid)	
Rated AC output power	8800kW@50℃
Max. Apparent Power	9680kVA@40℃
Rated voltage range	20~35kV
Nominal grid frequency	50Hz/60Hz
Power factor at nominal power	>0.99 (Rated power)
Adjustable power factor	0.8 leading~0.8 lagging
THDi	<3% (Rated power)
Inverter Efficiency	
Max. efficiency	99.0%
European efficiency	98.7%
Transformer	
Transformer cooling type	ONAN
Transformer vector	Dy11y11/Yd11d11
Transformer rated power	8800kVA
Transformer max. power	9680kVA
Protection & Function	
LV/HVRT Function	Yes
Fault Recording Function	Yes
Online Upgrade Function	Yes
PID Restoration Function	Yes
Q at night function	Yes
Box Support Monitoring Unit	Yes
General data	
Dimensions (W×H×D)*	12192×2896×2438mm
Weight*	31.5T
Inverter Protection Level	IP65
Inverter Cooling Method	Intelligent Liquid-air Hybrid Cooling
Transformer Cooling Method	ONAN
Max. Operating Altitude	2000m (>2000m customized)
Operating Temperature	-35℃ ~60℃
Operating Humidity	0~100% (non-condensing)
Auxiliary power supply	5kVA (max. 40kVA optional)
Display	LED,Mobile APP
Communication	Ethernet/RS485/Optical Port
Compliance	NB/T32004-2018,GB/T19964-2024，IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683

*Data under laboratory test conditions
■ Specifications are subject to change without prior notice