ONBIPV

B-S-5000B



MV PCS STATION

ADVANTAGES

- **Pre-integrated MV PCS Station:** 5000kW PCS with built-in 5000kVA oil-immersed transformer factory-assembled in one skid for fast site deployment.
- **Direct MV Grid Connection:** 6~35kV grid voltage (customizable) with Dyn11 transformer — no extra step-up equipment required.
- **Natural Cooling, Low Noise & Minimal Maintenance:** ONAN/KNAN transformer cooling needs no fan — quiet operation with reduced maintenance.
- **High System Efficiency:** THDi < 3% with power factor –1~1, delivering clean, low-loss grid output.
- **Grid Support Capability:** Inertia response enhances grid stability and renewable energy integration.

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Product Type	B-S-5000B

01 DC Parameters

Number of DC input channels	1/2
DC voltage operating range	1050~1500V

02 AC Parameters

Total rated power	5000kW
Rated voltage	690Vac
Isolation mode	Transformer isolation

03 On-Grid Mode

Rated grid voltage	6~35kV(customizable)
Rated grid frequency	50Hz / 60 Hz
THDi	<3%
Power factor	＞0.99

04 Transformer Parameters

Rated capacity	5000kVA
Transformer type	Oil-immersed transformer
LV/MV voltage	0.69 / (6.6~33±5%)kV
Vector group	Dyn11
Cooling type	ONAN/KNAN

05 System Parameters

Dimensions (W*H* D)	6058*2896*2438mm
Weight	24.3t
Operating temperature	-35~+60℃, >45 derating
Protection degree	IP54
BMS communication	RS485/CAN
EMS communication	Ethernet Interface
Communication protocol	Modbus TCP / IEC 61850 / IEC 104 / Modbus RTU / CAN 2.0
Grid support	Inertia response, etc.

06 Complied Standards

RoHS·IEC 62477-1·IEC 61000-6-2·IEC 61683·VDE 4120·EN 50549

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