ONBIPV

B-S-5000A



MV PCS STATION

ADVANTAGES

- **High-Integration Compact Design:** Integrated inverter & booster to save footprint and simplify on-site installation.
- **Multi-Operation Modes:** Supports VSG / PQ / VF, islanding and black-start for diverse grid-service scenarios.
- **Wide 1500V DC Operating Range:** 4/2/1 DC branch options, compatible with 5MWh 0.5C / 0.25C energy-storage projects.
- **Precise Four-Quadrant Control:** Fast power response＜20 ms with accurate active & reactive power regulation.
- **High-Efficiency & Grid-Friendly Performance:** Low THDi＜3%, stable output for reliable grid integration.

Copyright © ONBIPV Technology, all rights reserved. Website: onbipv.com, email: info@onbipv.com.
Information in this datasheet are subject to update without notice. ONBIPV reserves the right of final interpretation.

Product Type	B-S-5000A

01 DC Parameters

Number of DC input channels	1/2/4
DC voltage operating range	1000~1500V

02 AC Parameters

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

03 On-Grid Mode

Rated grid voltage	10~34.5kV (Customizable)
Rated grid frequency	50Hz / 60Hz
THDi	<3%
Power factor	0.99 / -1~1

04 Transformer Parameters

Rated capacity	5000kVA
Transformer type	Oil-immersed transformer
LV/MV voltage	0.69 / (10~34.5)kV
Vector group	Dy11y11
Cooling type	KNAN / ONAN

05 System Parameters

Dimensions (W*H*D)	12192*2896*2438mm
Weight	≤30t
Operating temperature	-40℃~60℃ (De-rating > 45℃)
Protection degree	IP55 for Overall (IP68 for Transformer, IP65 for PCS)
BMS communication	RS485/CAN
EMS communication	Ethernet Interface
Communication protocol	Modbus TCP / IEC 61850 / IEC 104 / Modbus RTU / CAN 2.0
Grid support	H/LVRT, Frequency adjustment function, Voltage adjustment function, Inertia response, etc.

06 Complied Standards

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

Copyright © ONBIPV Technology, all rights reserved. Website: onbipv.com, email: info@onbipv.com.
Information in this datasheet are subject to update without notice. ONBIPV reserves the right of final interpretation.