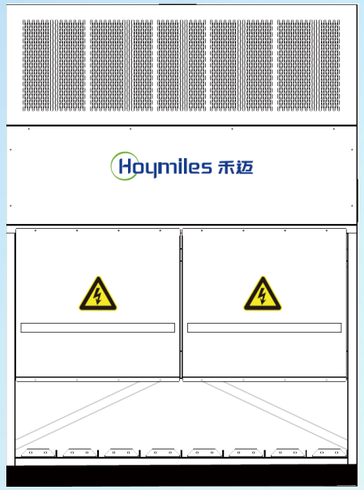
Open Energy for All

String PCS Station

The HIM2500-S-B6 and HIM3640-S-B8 String PCS Station, developed by Hoymiles, are integrate components such as PCS, cooling systems and other devices.
The system achieves comprehensive device-level management via an EMU or local controller, with unified communication interfaces and protocols. The skid-mounted design enables easy transportation and quick installation and commissioning.

HIM2500-S-B6

HIM3640-S-B8



Features

01 Highly Integrated

- High power density, with a rated single-rack output of 3.64 MW and a footprint of less than 2 m^2.

02 Flexible & Efficient

- Compatible with 314 Ah – 600 Ah+ battery cells, suitable for 2 h – 8 h long-duration systems.
- Hybrid SiC + NPC, maximum efficiency ≥ 99%.
- Intelligent liquid-cooling design maintaining full power at 60°C water temperature.

03 Reliable & Robust

- Stable operation from -40°C to 60°C.
- IP54 protection rating with C5 anti-corrosion grade.
- Single-cluster fault can be self-bypassed, zero interruption for critical loads.

04 Intelligent Core

- Self-developed local controller with visualized operating status, supports one-click upgrade, reducing on-site commissioning time.
- Supports 3× overload for 10s, stable operation even under weak grid conditions (SCR 1.0).
- Supports black start.

Region: Global Version: REV1.1

Technical Specifications

Model	HIM2500-S-B6	HIM3640-S-B8
DC Side		
Max. DC Voltage	1500 V	
DC Voltage Range	1000 V - 1500 V	
Full Power Voltage Range	1060 V - 1500 V	
Number of Inputs	12	16
Max. DC Current	243.5 A × 12	243.5 A × 16
Voltage Regulation Accuracy	< 1%	
Current Regulation Accuracy	< 2%	
AC Side Low Voltage Parameters (On-Grid)		
Rated AC Power	2500 kVA	3640 kVA
AC Overload Power	2750 kVA	4004 kVA
Rated AC Voltage	690 V	
AC Voltage Range	586 V - 759 V (-15% to +10%Un)	
Rated Frequency / Frequency Range	50 Hz / 45 Hz - 55 Hz, 60 Hz / 54 Hz - 66 Hz	
DC Injection	< 0.5% In	
THD-I	< 3% (@Rated Power)	
Reactive Power Adjustment Range	-105% to 105%	
Power Factor	1 leading - 1 lagging	
AC Connection Method	3P3W	
Switching Time		
Charge/Discharge Switching Time	< 30 ms	
AC Side Low Voltage Parameters (Off-Grid)		
Rated AC Voltage	690 V	
Rated Frequency	50 Hz / 60 Hz	
THD-V	≤ 3% (Rated Power)	
DC Injection	< 0.5%Un (Balanced linear load)	
Voltage Deviation	< 1%Un (Balanced linear load)	
Voltage Imbalance	< 2% (< 4% in short time)	
AC Connection Method	3P3W	
Efficiency		
Max. PCS Efficiency	> 99%	
Max. System Efficiency	≥ 98%	
General Data		
Dimensions (W×H×D)	1450 mm × 2600 mm × 1050 mm	1900 mm × 2600 mm × 1050 mm
Weight	< 2.6 t	< 3 t
Operating Temperature	-40°C to 60°C (> 50°C, Derating operation)	
Operating Humidity	0% - 100%RH (Non-condensing)	
Altitude	4000 m (> 2000 m, Derating operation)	
IP Rating	IP65 (PCS), IP54 (System)	
Cooling Method	Air Cooling / Liquid Cooling	
Cable Entry	Bottom-in, Side-out	
Communication		
Communication Interface	RS485, CAN, Ethernet	

* Subject to change without notice.

© 2026 Hoymiles Power Electronics Inc. All rights reserved.