

Telecom All-in-One Hybrid Power System Indoor/Outdoor

CPH-RPDL12-900

CE FC RoHS



Overview

- The CPH Telecom All-in-One Hybrid Power Supply System is designed for telecom power systems, providing core equipment with highly reliable, high-performance, calable, and flexible power solutions.

Application Scenarios

Compatible with base station powered by grid, solar, diesel-solar hybrid, and energy storage systems (grid-connected) or solar-grid hybrid with Time of Use.

*Product dimensions and parameters refer to the latest documents;

*The product shall be subject to the actual item.

Product Features

• Integrated Design:

Deeply Integration: Solar + Storage + Grid Backup in a compact design.

Modular & Prefabricated: Ensures easy scalability and simplified maintenance.

Built-In Smart Monitoring: Enables on-site human-machine interaction or remote online smart management.

AI Predictive Maintenance: Proactive maintenance that shifts from reactive to active service.

• Efficient and Flexible

Functional modules support hot-swapping and can be flexibly configured to meet customer and scenario requirements. Designed for easy installation, maintenance, and scalability.

• Cost-Effective

The system features an IP54 rating for reliable operation in harsh environment. Its detachable floor-mount design enables flexible and straightforward deployment, dramatically reducing both installation complexity and time.

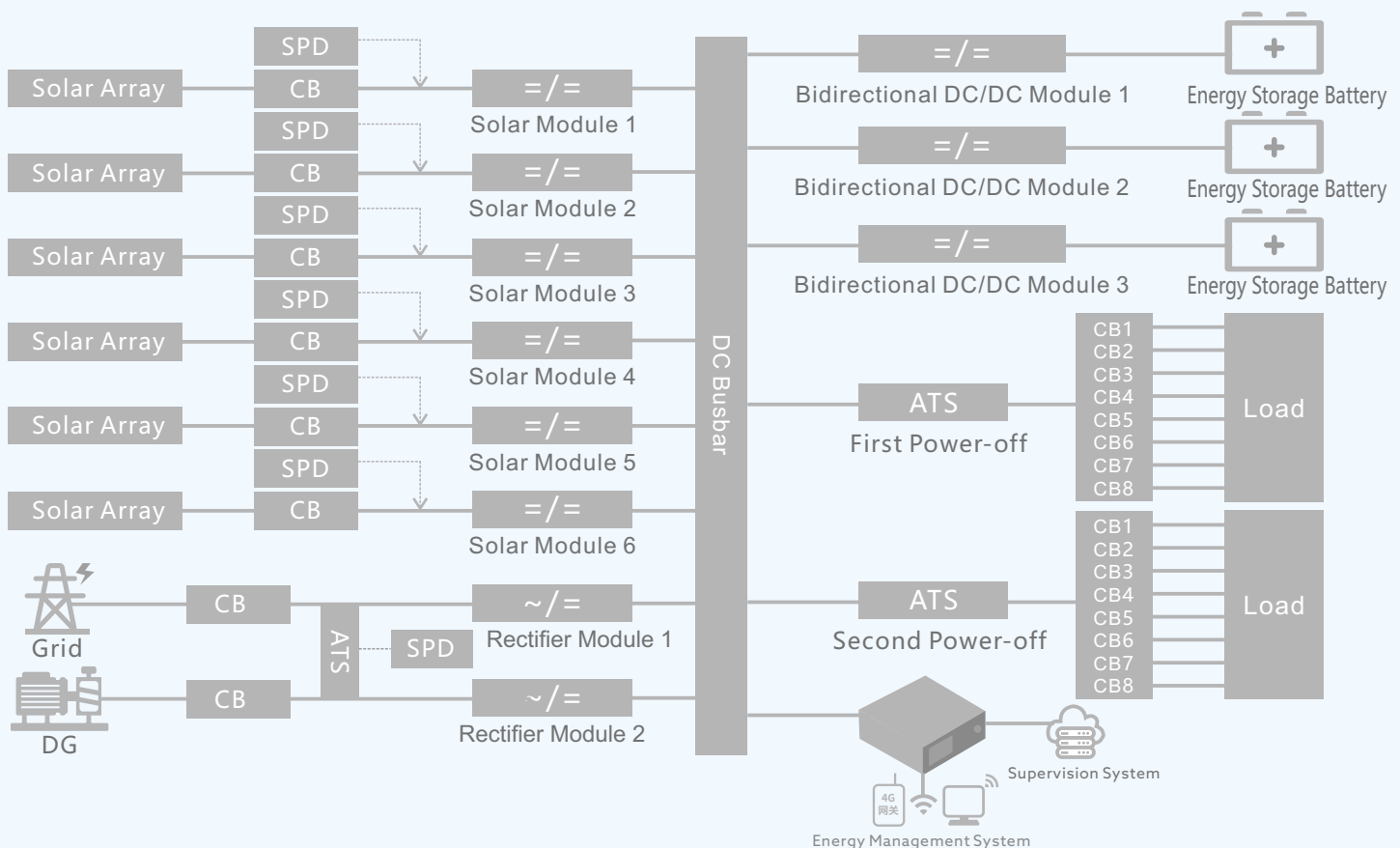
• Safe and Reliable

Modular isolation design ensures that single failure does not affect overall system operation. Power module employ electrically isolated circuits to keep it away from interference effectively, enhance system immunity and electrical safety for long-term stable and reliable performance.

• High Conversion Efficiency

The solar module integrates MPPT (Maximum Power Point Tracking) technology to continuously optimize PV array output under varying environmental conditions, achieving module conversion efficiency above 96%.

Schematic Diagram of Standard Model



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CPH Series Telecom All-in-One Hybrid Power Supply System Cabinet

Model		CPH-RPDL12-900
Functional Modules	Solar Power Module	75A 1U, standard 6 modules (max. 12 modules, pre-configured before shipment)
	Bidirectional DC/DC Module	75A 1U, standard 3 modules (max. 12 modules, pre-configured before shipment)
	Rectifier Module	75A 1U, standard 3 modules (max. 12 modules, pre-configured before shipment)
Solar Power Distribution Units	Solar Input	Circuit Breaker 32A/2P * 6 PCS (standard)
	Solar SPD	TC40-220D/2P * 6 PCS (standard)
AC Power Distribution Units	AC Input	Circuit Breaker 63A/3P+N * 2 PCS (for grid and diesel power)
	AC SPD	TC40-385/3P +N*1PCS
	AC Output	Circuit Breaker 32A/3P+N * 1 PCS
	Analog Switch	Circuit Breaker 32A/2P * 1 PCS (standard, customizable)
DC Output Distribution Units	BAT Connection (Negative)	Fuse 500A 80V * 2 PCS
	DC SPD	TC40-110VDC/1P*1PCS
	Load Output	First Power-off: 8 circuits, F1 & F2 fuses (F1: 160A, F2: 100A), Circuit Breaker 63A/2P * 6 PCS; Second Power-off: 8 circuits, Circuit Breaker 32A/1P * 8 PCS; Fuse and circuit breaker specifications/models are customizable.
Dimensions	Indoor/Outdoor -Standard	600x600x1200 (mm)
	Indoor/Outdoor -Standard	600x600x1600 (mm)
	Indoor/Outdoor -Standard (with Air Conditioner)	750x750x1700 (mm)
		Dimensions can be customized according to customer requirements.

***Attention:** The above specifications are for the standard model. Customized designs can be provided based on customer requirements and actual application scenarios.