



# TAITEN Power Converter System 125kW



# TAITEN Power Converter System 125kW HDC-PCS125-A



## PCS : Ultimate Performance, Fearless Challenge

### 【The Crown of Efficiency】 SiC (Silicon Carbide) Black Tech

- › Efficiency up to 99.3%, 50% reduction in losses. Directly boosts full lifecycle ROI, helping customers save every kilowatt-hour of electricity.

### 【Grid Formation Pioneer】 Grid Stability Guardian

- › Supports GW-level black start. Even if the grid is completely down, it can independently establish stable power, serving as the strongest backing for earthquake-prone areas and microgrids.

### 【Full Power in Extreme Heat】 45°C High Temperature Without Derating

- › Industry-leading! Still capable of 100% full power output in a 45°C environment. Specifically designed for high-temperature, high-salinity coastal industrial zones.

### 【Active Protection】 AI-Level Arc Pre-warning

- › ArcDefender™ Technology. Millisecond-level detection and disconnection of DC arcs, eliminating fire risks in their nascent state.



Product Name	TAITEN Power Converter System 125kW
Product Model	HDC-PCS125-A
<b>DC Side</b>	
Max. DC Voltage	1000 V
Input Start-up Voltage	600 V
DC Voltage Range for Nominal Power	600 V ~ 1000 V
Max. DC Current	212.5 A
Max. DC Power	137.5 kW
Compatible Batteries	Li-ion
<b>AC Side (On-Grid)</b>	
Rated Output Power	125 kVA
Rated Output Current	180.4 A
Max. AC Current	198.4 A
Nominal Voltage	380 V
Voltage Range	340 V ~ 440 V
Nominal Grid Frequency	50 Hz / 60 Hz
Grid Frequency Range	45 Hz ~ 55 Hz / 55 Hz ~ 65 Hz
Max. THD of Current	< 3%(Nominal power)
Power Factor Range	1.0 leading ~ 1.0 lagging
Feed-in Phases	3P4L
<b>AC Side (Off-Grid)</b>	
Nominal Voltage	400 V
AC Voltage Range	340 V ~ 440 V
AC Voltage Distortion	< 1.5%(Linear load)
Unbalance Load Capacity	100%
Nominal Voltage Frequency	50 Hz / 60 Hz
Voltage Frequency Range	48 Hz ~ 52 Hz / 58 Hz ~ 62 Hz
<b>Efficiency</b>	
Max. Efficiency	98.5%
<b>Protection</b>	
Reverse Polarity Protection	Yes
AC Short Circuit Protection	Yes
Leakage Current Protection	Yes
Overvoltage Protection	DC Type II / AC Type III
Grid Monitoring / Ground Fault Monitoring	Yes
Insulation Monitoring	Yes
Overheat Protection	Yes
Active Anti-islanding Method	Frequency shift



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<b>General Data</b>	
Dimensions (W × H × D)	820 mm × 310 mm × 1019 mm
Weight	105 kg
Degree of Protection	IP 66
Topology	Transformerless
Protective Class	Class I
Noise Level	≤ 70 dB
Display	LED, Bluetooth + APP
Communication	Ethernet
<b>Environmental</b>	
Operating Temperature Range	-30 °C ~ 60 °C (> 45 °C derating)
Operating Humidity Range	0% ~ 100%
Temperature Control Method	Intelligent air cooling
Max. Operating Altitude	4000 m (> 4000 m derating)
<b>Compliance</b>	
Standards	EN50549, VDE-AR-N 4105+VDE-AR-N 4110, IEC 61000, IEC 62477, IEC 62109



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