

# FLOWENERGY

ShenZhen HNergy Co., Ltd

## ES-series Modular Power Conversion System (CE) Datasheet



Power Conversion System (PCS)

Datasheet-CE Model

Version A02

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ShenZhen HNergy Co., Ltd provides comprehensive technical support to customers. Users can contact our nearest office or customer service center, or get in touch with the our headquarters directly.

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## 1. Product model

This datasheet cover models for products:

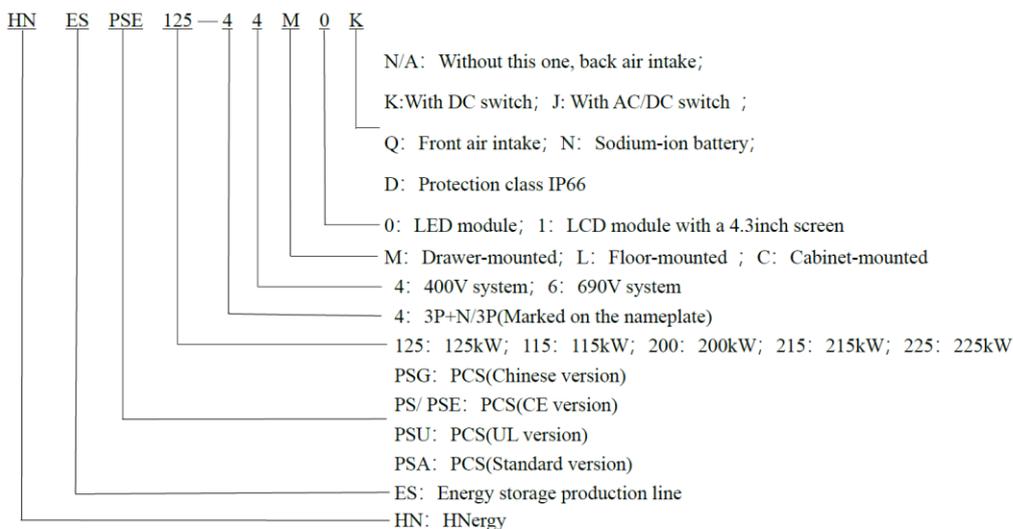
HNESPS125-44M0, HNESPS125-44M0Q, HNESPS125-34M0, HNESPS125-34M0Q, HNESPS115-44M0, HNESPS115-44M0Q, HNESPS115-34M0, HNESPS115-34M0Q

## 2. Product series name

The series name of the energy storage converter is: ES-series.

The meanings of the product series names are as follows:

The meanings of the product series names are as follows:



Notes:

1. When the last letter has multiple meanings, it is represented by two letters. For example, a sodium-ion battery with a DC switch is represented as "NK," where the first letter is "N" and the second letter is "K."
2. For the number representing the wiring system, if the module is compatible with both three-phase three-wire and three-phase four-wire systems, it is uniformly represented by the number "4" If the module only supports the three-phase three-wire system, it is represented by the number "3."

### 3. Product Datasheet

See following page

Product Model:	HNESPS125-44M0, HNESPS125-44M0Q
<b>DC Input:</b>	
Max Input DC Voltage	950V
Min Input DC Operating Voltage Range	650-950V
Input Start-up Voltage	650V
Max Input Current	192A
Short Circuit Current	440A
<b>AC Output:</b>	
Output Voltage	230/400V, 3W+N+PE
Rated Frequency	50/60Hz
Rated Output Apparent Power	125kVA
Max Output Power	150kW
Max Apparent Power	150kVA
Rated Output Current	180A
Max Output Current	217A
Power Factor Range	-1 leading ~ +1 lagging
<b>Others:</b>	
IP Rating	IP20(Control cabin IP66, power cabin IP20)
Operating temperature range	-40 °C to +60 °C (>45 derating)
Protective Class	Class I
Overvoltage category	DC Side II, AC Side III
Maximum Altitude	4000m
Relative Humidity	0% RH ~ 100% RH
Max Efficiency	98.5%
Method of Active Anti-Islanding	Current injection
Size (W*H*D)	800*800*235mm
Weight	95kg
Firmware	DSP: V005B000D000 FPGA: V003B000D000 ARM-APP: V003B000D000 ARM-IAP: V005B000D000

<b>Product Model:</b>	<b>HNESPS125-34M0, HNESPS125-34M0Q</b>
<b>DC Input:</b>	
Max Input DC Voltage	950V
Min Input DC Operating Voltage Range	600-950V
Input Start-up Voltage	600V
Max Input Current	192A
Short Circuit Current	440A
<b>AC Output:</b>	
Output Voltage	400V, 3W+PE
Rated Frequency	50/60Hz
Rated Output Apparent Power	125kVA
Max Output Power	150kW
Max Apparent Power	150kVA
Rated Output Current	180A
Max Output Current	217A
Power Factor Range	-1 leading ~ +1 lagging
<b>Others:</b>	
IP Rating	IP20(Control cabin IP66, power cabin IP20)
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Relative Humidity	0% RH ~ 100% RH
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Method of Active Anti-Islanding	Current injection
Size (W*H*D)	800*800*235mm
Weight	95kg
Firmware	DSP: V005B000D000 FPGA: V003B000D000 ARM-APP: V003B000D000 ARM-IAP: V005B000D000

<b>Product Model:</b>	<b>HNESPS115-44M0, HNESPS115-44M0Q</b>
<b>DC Input:</b>	
Max Input DC Voltage	950V
Min Input DC Operating Voltage Range	650-950V
Input Start-up Voltage	650V

Max Input Current	177A
Short Circuit Current	440A
<b>AC Output:</b>	
Output Voltage	230/400V, 3W+N+PE
Rated Frequency	50/60Hz
Rated Output Apparent Power	115kVA
Max Output Power	138kW
Max Apparent Power	138kVA
Rated Output Current	167A
Max Output Current	200A
Power Factor Range	-1 leading ~ +1 lagging
<b>Others:</b>	
IP Rating	IP20(Control cabin IP66, power cabin IP20)
Operating temperature range	-40 °C to +60 °C (>45 derating)
Protective Class	Class I
Overvoltage category	DC Side II, AC Side III
Maximum Altitude	4000m
Relative Humidity	0% RH ~ 100% RH
Max Efficiency	98.5%
Method of Active Anti-Islanding	Current injection
Size (W*H*D)	800*800*235mm
Weight	95kg
Firmware	DSP: V005B000D000 FPGA: V003B000D000 ARM-APP: V003B000D000 ARM-IAP: V005B000D000

<b>Product Model:</b>	<b>HNESPS115-34M0, HNESPS115-34M0Q</b>
<b>DC Input:</b>	
Max Input DC Voltage	950V
Min Input DC Operating Voltage Range	600-950V
Input Start-up Voltage	600V
Max Input Current	177A
Short Circuit Current	440A
<b>AC Output:</b>	
Output Voltage	400V, 3W+PE
Rated Frequency	50/60Hz
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Relative Humidity	0% RH ~ 100% RH
Max Efficiency	98.5%
Method of Active Anti-Islanding	Current injection
Size (W*H*D)	800*800*235mm
Weight	95kg
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#### 4. Battery type

- ▲ Compatible with lead-acid and lithium batteries.
- ▲ Supports battery cluster management to prevent circulating currents between clusters.
- ▲ Supports RS485 and CAN communication.

**Notes:** The ES-series model series does not include a connection terminal for a remote battery temperature sensor. If installing the ES-series model series with lead acid batteries please check with ShenZhen HNergy Co., Ltd for advice regarding charge settings.