## HES-800



## Characteristic

- Ceramic sealing structure using magnetic blowing out technology and filled with hydrogen gas mixture,
- achieving anti contact oxidation, zero arc, low contact resistance. A new safe, stable, and reliable solution.
   Built in a set of normally open auxiliary contacts.
- No polarity requirement during loading.
   Environmental protection: All parts comply with the latest EU ROHS environmental protection requirements.
- Approval: UL, CE, TÜV

Contact parameter		
Contact type	1H	
Contact resistance	≤0.3mΩ(at 800A 23°C)	
Contact rated current	800A	
Max. switching voltage	1500VDC	
Max. breaking current	2000A 1000DC (1 op)	
Max. switching power	1000VDC 800KW	
	1500VDC 1200KW	
Current carrying capacity	800A: keeping	
	1000A: 8min	
	1500A: 75s	
	2000A: 45s	

Note: Current carrying capacity data is tested at ambient temperature of 85°C, cross section≥50mm², more detail, please see curve.

ational voltage VDC	Release voltage VDC	Coil power W
≤ 9.6	≥1	5
≤ 19.2	≥2	5
≤ 38.4	≥4	5
	VDC ≤ 9.6 ≤ 19.2	≤ 9.6 ≥ 1 ≤ 19.2 ≥ 2

Note: The operational voltage and release voltage are conservative values in the full temperature range ( −40°C ~ +85°C ) .

Environmental characteristics			
Shock	Stability	98m/s <sup>2</sup>	
	Strength	490m/s <sup>2</sup>	
Vibration		10Hz ~ 55Hz 49m/s <sup>2</sup>	
Humidity		5% ~ 85%RH	
Ambient temperature		-40°C ~+85°C	
IP grade		IP67 (contact)	

	Life
Mechanical endurance	2×10 <sup>5</sup> ops
Electrical Endurance (Breaking)	100A 1500Vdc. 5×10 <sup>3</sup> ops
	150A 1500Vdc. 3×10 <sup>3</sup> ops
	600A 1500Vdc. 100 ops
	800A 1500Vdc. 10 ops
	1000A 1500Vdc. 1 ops

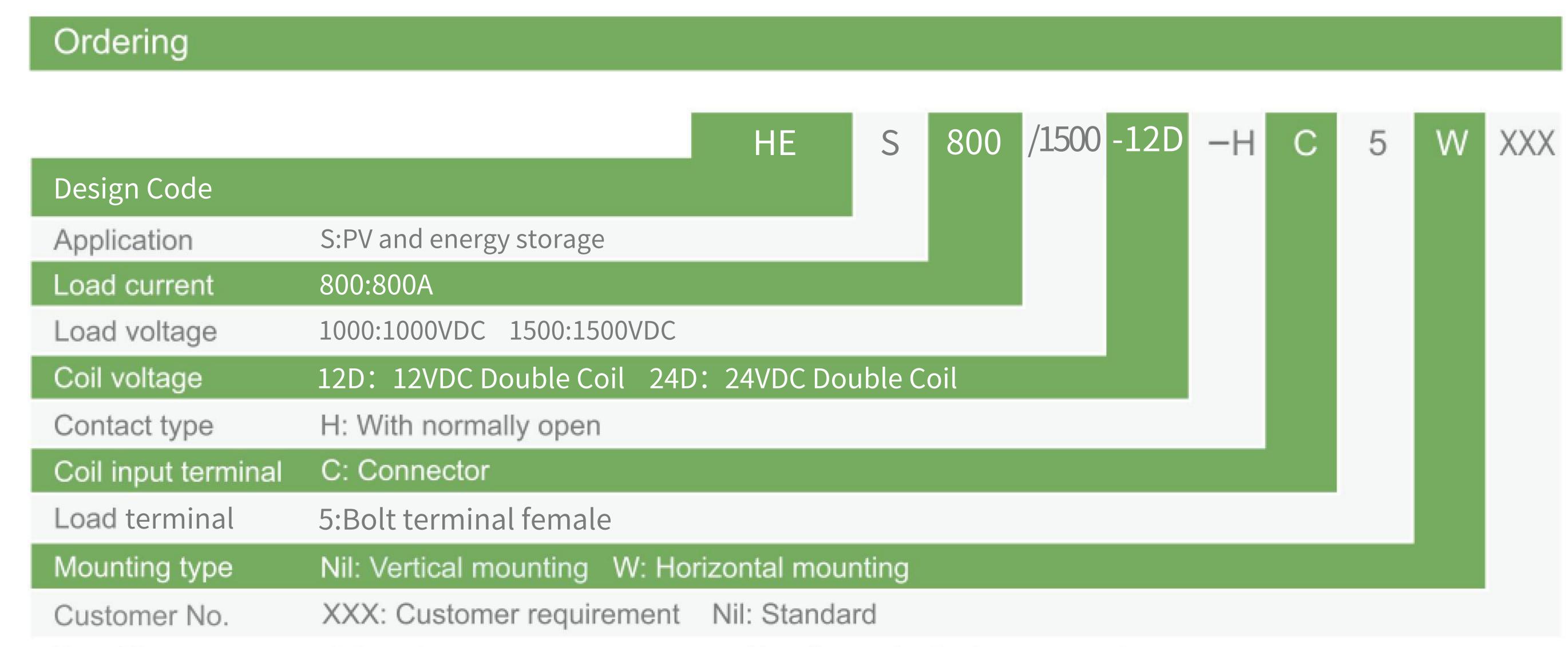
Note 1: Except for special notes, the ambient temperature of electrical durability test is 23°C and the on-break ratio is 0.6s:5.4s.

Note 2: When the relay is used to control the main circuit of charge and discharge, the pre-charge circuit should be added. If there is no pre-charging path, a transient large current will be generated when the relay closes, which may cause the relay to stick.

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Insulation resistance		≥1000MΩ (1500VDC 1min)
Dielectric	between contact and coil	4000VAC 1min
voltage	between open contacts	4000VAC 1min
Operate time (at nomi. volt.)		≤30ms
Release time (at nomi. volt.)		≤10ms
Note: The data shown above are initial values.		

Other		
Terminal	M8 internal thread	
Mounting torque at load end	M8 8~10N.m	
Outline dimension	104mm×70mm×89mm	
Weight	≈1100g	



Note: The customer special requirement express as customer No. after evaluating between each party.

## Outline, coil wiring, installation hole

Unit: mm

HES-800/1500/xxx-xxD-HAC5

