

High Power Relays

HE Series

Thanks to latest relay technology, Panasonic Industry enables the customer to use PCB technology for high current applications. This contributes to considerable savings financially as well as in terms of energy consumption.



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Overview

20A

HE-V

Contact Gap: 3.8mm

Ambient Temperature: -40 - +85°C

Contact Arrangement: 2FormA

Max. switching Voltage: 1000VDC

35A

HE-S

Contact Gap: 3.2mm

Ambient Temperature: -40 - +85°C

Contact Arrangement: 2FormA, 2FormA1FormB

Max. switching Voltage: 480VAC

48A

HE-Y5

Contact Gap: 2.5mm

Ambient Temperature: -50 - +85°C

Contact Arrangement: 1FormA

Max. switching Voltage: 277VAC

90A

HE-Y6

Contact Gap: 3.0mm

Ambient Temperature: -50 - +85°C

Contact Arrangement: 1FormA

Max. switching Voltage: 277VAC

120A

HE-N

Contact Gap: min.3.6mm

Ambient Temperature: -40 - +85°C

Contact Arrangement: 1FormA

Max. switching Voltage: 800VAC

Panasonic portfolio suitable for high power on PCBs



Inverter

- Photovoltaic
- Wind Energy
- Industrial Motor Control



Battery Storage

- Uninterruptable Power Supply
- Energy Self-Sufficient Housing



EV Charging

- Charging Cable
- AC/DC Wallbox
- AC/DC Charging Station

Standards

All relays conform to UL and VDE. For further available approvals, please ask your local Panasonic contact.

Product Range



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Key Features

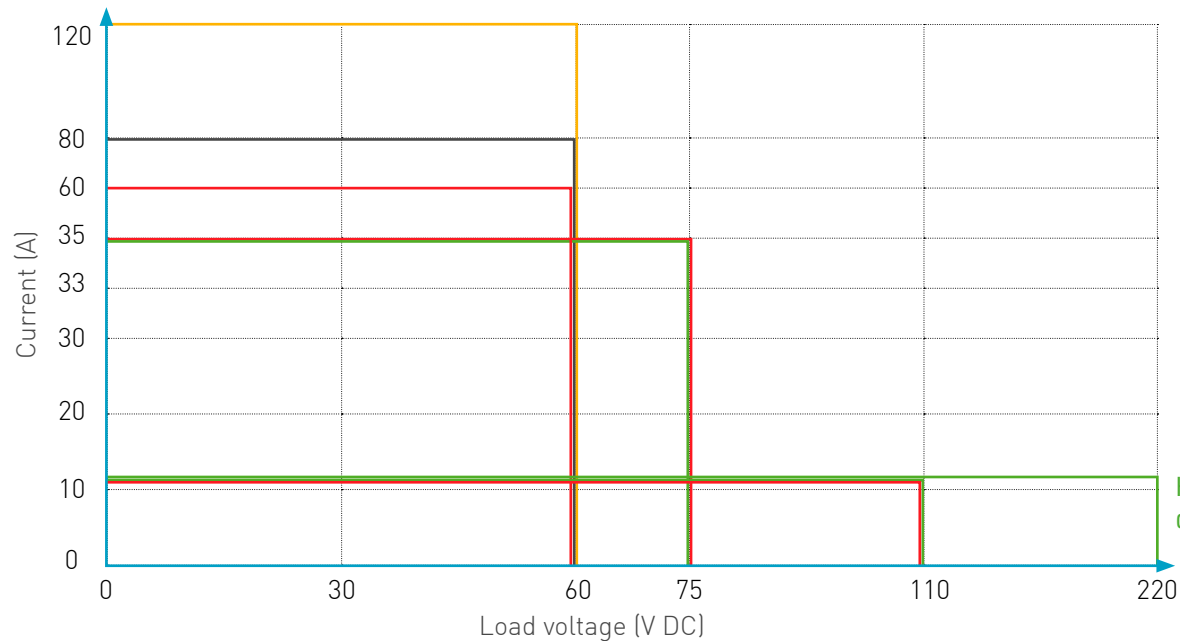
- Galvanic separation
- De-Electric strength and protection against surge voltages
- Extreme low contact resistance

Series	HE-V	HE-S	HE-Y5	HE-Y6	HE-N (Y7)
Switching current	20A DC	35A AC	48A AC	90A AC	120A AC
Dimensions	41x50x39,4mm	30x36x40mm	38x33x36,3mm	38x33x38,8mm	50x40x43mm
Holding Power*	210mW	170mW	310mW	310mW	400mW

*with reduced coil holding voltage

DC load performance

Conditions : resistive load, electrical expected life of 10^4 cycles (reference value)



HE-S: Each 1 Form A contact connected in series

HE-S unique relay structure:

1FormB mirror contact compliant with EN60947-4-1 for safety circuits, conform to EN61851-1

