



PCS

Flexible, Silent, 2000 V Ready



Unlock the Future of
Power Conversion



Experience the Next Generation of High Power Density and Efficiency

- Up to 2000 V_{DC}
- 320 to 730 V_{AC}
- 2217 to 5057 kVA
- Water-Cooled

| | | |
|----------------|---|------------------------------------|
| DC SIDE | Maximum DC voltage ⁽¹⁾ | 1500 V |
| | Maximum DC voltage ⁽²⁾ | 453 V / 976 V / 1033 V |
| | Maximum current | 4900 A |
| | DC Ports | 1 or 2 |
| | Number of DC inputs | Up to 30 + 30 fuses |
| | Type of connection | Busbar |
| AC SIDE | Power @ 1500 V _{DC} , 40 °C | 2217 kVA / 4780 kVA / 5057 kVA |
| | AC current @ 1500 V _{DC} , 40 °C | 4000 A |
| | Rated AC voltage | 320 V / 690 V / 730 V |
| | AC voltage range | ± 15 % |
| | AC frequency | 50 Hz / 60 Hz ± 6 % |
| | Power factor | 0 under-excited, 1, 0 over-excited |
| | THDi @ Phom | < 1 % |
| | Type of connection | Busbar |

| | | |
|--------------------|---|--|
| PROTECTIONS | DC surge protection device | Type I+II |
| | AC surge protection device | Type I |
| | AUX surge protection device | Type II+III |
| | Insulation monitoring | Ground fault monitoring with digital signals (Warning and Alarm) |
| GENERAL | Dimension ⁽³⁾ | 2000 x 2000 H= 2730 mm |
| | Total mass ⁽⁴⁾ | 4500 kg |
| | Installation | Outdoor |
| | Cooling type (optional) | Water-Cooled |
| | Protection degree (optional) | IP55 (IP65) |
| | Temperature range (optional) ⁽⁵⁾ | (-40 °C) -20 °C to 40 °C |
| | Maximum operating altitude | Up to 1000 m without derating Up to 4000 m with derating in current and voltage |
| | Sound pressure level @ 10 m | < 60 dB(A) |
| | Corrosion protection (optional) | C4H (C5H) |
| | Color | RAL 9016 / 6037 |
| FEATURES | Stand-by consumption | < 250 W |
| | Maximum efficiency | 98,7 % |
| | Grid forming | Available |
| | Black start | Available |
| | Communication (optional) | ModBus TCP/IP (Profinet) Predisposition for remote monitoring |
| | Declaration of conformity | CE, UKCA, UL |
| | Standard complied with | IEC 62477-1, IEC 62109-1/2, IEC 62909-1/2, UL 1741, IEC 62920, IEC 60068-2-1, IEC 60068-2, IEC 60068-30, IEC 60068-78 |

(1) Ready for 2000 V Standard

(2) PF=1, U_{GRID}=U_{NOM}, interpolation permitted. Contact Nidec Conversion for details about operation

(3) The dimension may change based on different configurations

(4) The mass depends on the final configuration

(5) Power derating of 10% @ 50 °C



All products and services described, as well as technical data, are subject to change.
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