



UniQube PCS

Flexible, Compact, 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}
- 1108 to 5057 kVA
- Water-Cooled

DC SIDE	Maximum DC voltage ⁽¹⁾	1500 V	
	Minimum DC voltage ⁽²⁾	463 V / 981 V / 1037 V	
	Maximum current	2450 A	2 x 2450 A or 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	1108 kVA / 2390 kVA / 2529 kVA	2217 kVA / 4780 kVA / 5057 kVA
	AC current @ 1500 V _{DC} , 40 °C	2000 A	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	Class I
	AUX surge protection device	Class II
	Insulation monitoring	Ground fault monitoring with digital signals (Warning and Alarm)
GENERAL	Dimension ⁽³⁾	2000 x 2000 H = 2760 mm
	Total mass ⁽⁴⁾	4500 kg
	Installation	Outdoor
	Cooling type (optional)	Air-Cooled and Water Cooled (Only 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	EN IEC 62920, EN IEC 62477-1, EN IEC 60068-2-2/30/78, EN IEC 62443, EN IEC 60529, EN IEC 62262

(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



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