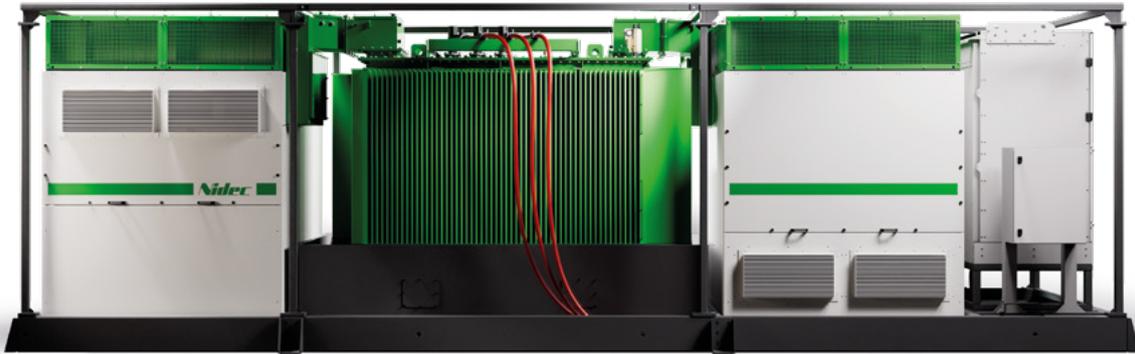




# POWER UNIT



Discover one of the most  
Compact, Flexible  
and Silent Power Unit



## Plug&Play solution for next generation of Solar and BESS applications

- 1500 V<sub>DC</sub>
- 6,6 to 36 kV<sub>AC</sub>
- Up to 10 MVA in 30'
- Water-cooled

### Single PCS Power Unit

### Dual PCS Power Unit

		Single PCS Power Unit	Dual PCS Power Unit
<b>DC SIDE</b>	Maximum DC voltage <sup>(1)</sup>	1500 V	
	Minimum DC voltage <sup>(2)</sup>	463 V / 981 V / 1037 V	
	Maximum current	2 x 2450 A or 4900 A	4 x 2450 A or 2 x 4900 A
	DC Ports	1 or 2	2 or 4
	Number of DC inputs <sup>(3)</sup>	Up to 30	Up to 60
	Type of connection	Busbar	
<b>AC SIDE</b>	Power @ 1500 V <sub>DC</sub> , 40 °C	Up to 5057 kVA	Up to 10115 kVA
	Rated AC voltage	From 6,6 kV to 36 kV	
	AC voltage range	± 10 %	
	AC frequency	50 Hz / 60 Hz ± 6 %	
	Transformer cooling method	ONAN / KNAN	
	Transformer losses	Industry Standard / Eco design 2	
	Power factor	0 under-excited, 1, 0 over-excited	
	THDi @ Phom	< 1 %	
	Type of connection	Plug in type C	

## Single PCS Power Unit

## Dual PCS Power Unit

<b>PROTECTIONS</b>	DC surge protection device	DC disconnectors	
	AC surge protection device	Medium voltage circuit breaker	
	AUX surge protection device	Class II	
<b>GENERAL</b>	PCS number	1	2
	Dimension <sup>(4)</sup>	6058 mm x 2438 mm H=2896 mm	9125 mm x 2438 mm H=2896 mm
	Total mass <sup>(5)</sup>	20 tons	30 tons
	Temperature range (optional) <sup>(6)</sup>	[- 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	
	Corrosion protection (optional)	C4H (C5H)	
	Color	RAL 9016 / 6037 / 9005	
<b>FEATURES</b>	PCS stand-by consumption	< 250 W	
	PCS 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 60076, EN 50588, IEC 62271, IEC 62920, IEC 62477-1, IEC 60068-2-2/30/78, IEC 62443	

(1) Ready for 2000 V Standard

(2) PF=1, U<sub>GRID</sub>=U<sub>NOM</sub>, interpolation permitted. Contact Nidec Conversion for details about operation

(3) Referring to solar applications

(4) The dimension may change based on different configurations

(5) The mass depends on the final configuration

(6) Power derating of 10% @50 °C



All products and services described, as well as technical data, are subject to change.  
Nidec Conversion provides no warranty concerning such data in any nature or any kind,  
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