

Annex **/ Data** **sheet**

Datasheet

Microgrid Controller	Microgrid control	Power Management System (PMS) included Basic Energy Management System (EMS) included				
	Interface with other microgrid elements	Modbus TCP/RTU, CAN				
	Monitoring	Web, App				
	Communication with SCADA systems, control centres and/or supervisory controls	Modbus TCP/RTU, IoT				
DC input module		DC21	DC22			
	Number of DC inputs	1 ... 2				
	Number of pre-charge circuits	1	2			
	Protections	Switch disconnecter and fuse				
	Dimensions	(1)				
Power module		PM50T	PM100	PM200 / PM200C		
	Number of DC inputs	1	1	1/2		
	DC voltage range	537 V ... 850 V	570 V ... 850 V			
	Rated power	50 kVA	100 kVA	200 kVA		
	AC rated voltage	400 V	200 V ... 480 V			
	AC rated current	72 A	147 A	294 A		
	Rated frequency	50 Hz	50 Hz / 60 Hz			
	Overload capability (at 400 V)	144 A for 100 ms 94 A for 1 min 79 A for 60 min	294 A for 100 ms 191 A for 1 min 162 A for 60 min	588 A for 100 ms 382 A for 1 min 324 A for 60 min		
	Power factor	0 ... 1 (capacitive/inductive)				
	Cooling system	Forced air				
	Ambient temperature range	-20 °C ... 45 °C				
	Maximum operating altitude	1500 m				
	Dimensions (height x width x depth)	1800 mm x 740 mm x 600 mm				
	Approximate weight	710 kg	550 kg	640 kg		
	AC output module		AC50	AC100	AC100T	AC200
Transformer		Yes	No	Yes	No	Yes
Rated AC output voltage		400 V	200 V ... 480 V	400 V / 480 V	200 V ... 480 V	400 V / 480 V
Rated frequency		50 Hz	50 Hz / 60 Hz			
Pre-charge circuit		Yes	No	Yes	No	Yes
Protections		Contactor and circuit breaker				
Dimensions (height x width x depth)		1800 mm x 940 mm x 600 mm				
Approximate weight	110 kg	140 kg	660 kg	170 kg	810 kg	
AC distribution module	Optional	It enables the electrical integration (power and control) of other microgrid elements such as solar PV inverters, gensets, grid connection, etc.				
		Standard units or custom design depending on project's needs				
Regulation	Standards and directives	CE				
	EMC and safety	EN 50178, EN 61000-6-2, IEC 62477-1, CISPR 11				
	Grid codes (2)	Spain, Portugal, UK, Italy				
Notes	(1)	Module included in the cabinet containing the AC output module				
	(2)	Check for grid codes in other countries				

Norvento Gridmaster Converter

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The data in this brochure is for informational purposes only and may differ from the final characteristics of the equipment.

Product made in Spain.

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