



SINVERT PVM20 6DC 50/60HZ A SINVERT PVM20  
 INVERTER FOR PV,  
 GRID CONNECT. LV IEC 50/60HZ, 3P,  
 400VAC STANDARD MPP,  
 UMAX 1000VDC 6 DC-INPUTS

**General technical data:**

<b>Product brand name</b>		SINVERT
<b>Product designation</b>		photovoltaic inverter
<b>Number of PV inverter sub-units</b>		1
<b>Type of installation</b>		Outdoor installation
<b>Protection class IP</b>		IP65
<b>Operating resource protection class</b>		I
	m	2000
<b>Incoming air temperature / at nominal value of active power supplied / maximum</b>	°C	40
<b>Ambient temperature</b>		
• during the operating phase	°C	-25 ... 55
• during storage	°C	-25 ... 70
• during transport	°C	-25 ... 70
<b>Relative humidity / without condensation</b>		
• during operating phase	%	4 ... 100
<b>Climatic class</b>		4K4H
<b>Type of cooling</b>		natural convection
<b>A valuated sound power level / maximum</b>	dB	45
<b>RAL color number</b>		RAL 7035

Horizontal image resolution		128
Vertical screen resolution		64
Number of colors / of the display		2
Design of the display / Touchscreen		Yes
Design of the interface / for communication		Ethernet, RS485
Product feature / [nicht versorgt - Funktionserde]		No
Connection method for PV inverters		without transformer
Product function / Potenzialtrennung		No
[nicht versorgt: PMD_ABT788_001_000]		
•		Yes
•		Yes

#### Inputs:

Minimum MPP voltage	V	480 ... 850
Maximum permissible DC input voltage		
•	V	350
•	V	350 ... 950
•	V	600
•	V	1000
	W	19600
Total power used / on the DC side / maximum	A	41
Number of inputs / on the DC side		6
Input current / per DC input / maximum	A	25
[nicht versorgt: PMD_ABT775_001_000]		
•		Yes
• overvoltage protection		Yes

#### Outputs:

Phase number		3
Output voltage / on the AC side / for line feed operation / nominal value	V	400
[nicht versorgt: PMD_ABR722_001_000]		
•	V	320 ... 480
Line frequency		
• suitable for feed operation		
• nominal value	Hz	50
• [nicht versorgt: PMD_ABT548_001_000]		
•	Hz	60
Active power supplied / on the AC side		
• in permanent operation / nominal value	W	19200
• maximum	W	19200

Current supplied / on the AC side / maximum	A	29
Power factor / at nominal value of active power supplied / nominal value		1
Power factor inductive / minimum		0.9
Power factor capacitive / minimum		0.9
Relative ripple/periodic and random deviation / of AC current / at nominal value of the AC active power / on unloaded line / maximum	%	2.5
Grounding concept / on the AC side		TN-S
		Yes

#### Efficiency / heat loss:

Effectiveness / maximum possible	%	98.2
Euro efficiency	%	97.8
Apparent power consumed		
• in night-time operating mode	V·A	0.5
• in standby operating mode	V·A	0.5
	W	60

#### Connections:

Design of the electrical connection		
• at the DC input		MC4
[nicht versorgt: PMD_ABR575_001_000]		
•	mm <sup>2</sup>	4 ... 6
[nicht versorgt: PMD_ABT786_001_000]		
•	mm	10 ... 18

#### Installation/mounting/dimensions:

built in orientation		vertical
Type of fixing/fixation		wall mounting
Design of the cable entry (gland)		from below
Width / of the single device	mm	530
Height / of the single device	mm	600
Depth / of the single device	mm	260.5
Weight / of the single device	kg	41

#### Certificates/approvals:

verification of suitability		CE
Product function / line monitoring for low voltage		Yes
Product quality		
• EMC interference resistance industry according to IEC 61000-6-2		Yes
• EMC emitted interference industry according to IEC 61000-6-4		Yes

**Further information:**

**Information- and Downloadcenter (Catalogs, Brochures,...)**

<http://www.siemens.com/industrial-controls/catalogs>

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**Global Industry Mall (Online ordering system)**

<http://www.siemens.com/industrial-controls/mall>

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**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<http://support.automation.siemens.com/WWW/view/en/6AG3120-3JM02-0AC0/all>

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**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=6AG3120-3JM02-0AC0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=6AG3120-3JM02-0AC0)

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**last change:**

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