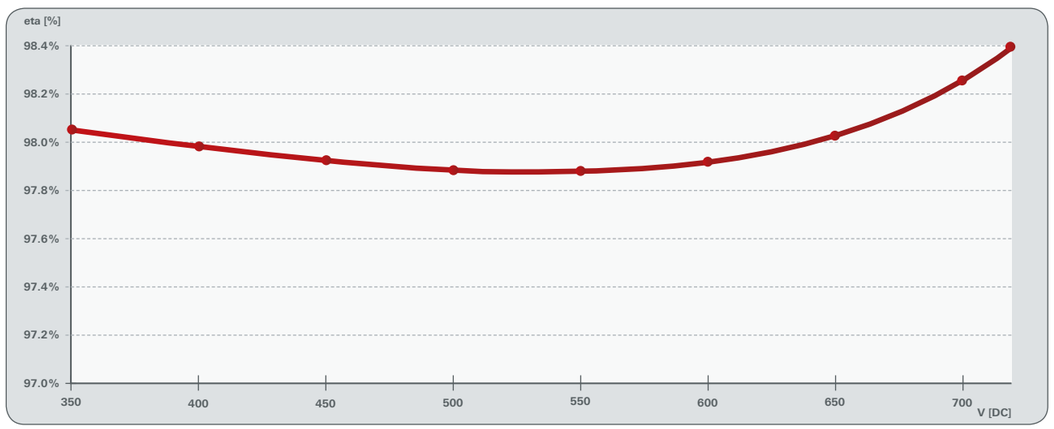
Pulls out a cool 98.4 %.
The PLATINUM® R3 inverter.

The transformerless, three-phase high-performance R3 inverter is a logical extension of the PLATINUM® product family: smaller, more compact, more lightweight and more efficient. Thanks to the innovative DUAL-X® technology, it achieves a peak efficiency of 98.4% and thus offers an excellent yield. Factors that contribute to this exceptionally high efficiency include the purely convection-based cooling system and the excellent MPP tracking, while the low weight and automatic master programming via the PLATINUM® network EIA 485 help to make installation and commissioning incredibly easy. All of the key operating data can be clearly read off from the graphics display – even at night. The range contains five models from 7 to 16 kW.

- Efficiency of 98.4 %
- DIVE® technology for increased efficiency in the lower power output range
- RAC-MPP® technology for rapid MPP location
- Convection cooling
- Integrated datalogger provides storage capacity for 30 years worth of operating data
- 10-year free manufacturer's warranty

All PLATINUM® R3 models are compliant with the "Energy Management (§6 EEG)" market requirement specification, the "Technical Guidelines for Power Generating Plants Connected to the Medium Voltage Grid" and the "Low-voltage Directive AR-N-4105". This supersedes directive VDE 0126-1-1.

Excellent yield values thanks to DUAL-X® technology.



High efficiency across the entire MPPT voltage range thanks to innovative Dual-X® technology.
The advantage: exceptionally high yields with optimum design flexibility.

Specifications

R3 Inverter	7000 R3	9000 R3	11000 R3
DC Input			
Max. PV power	6,700 Wp	9,000 Wp	11,200 Wp
Max. DC power (@ cos phi = 1)	6,100 W	8,200 W	10,200 W
MPPT voltage range	350 V ... 720 V		
Max. input voltage	900 V		
Max. MPPT input current	2 x 10 A	2 x 13 A	2 x 16 A
Number of string inputs	2 + 2		
Number of MPP trackers	1		
DC disconnect	yes		
Reverse polarity protection	yes		
DC short circuit current	14 A	18 A	22 A
Ground fault monitoring	isolation control		
AC Output			
Rated power (@ cos phi = 1)	6,000 W	8,000 W	10,000 W
Rated current	8.7 A	11.6 A	14.5 A
Max. apparent power	6,000 VA	8,000 VA	10,000 VA
Max. AC current	11.2 A	14.8 A	18.5 A
Power feed starts at	20 W		
Mains output voltage	3AC 230 V / 400 V + N (+/-20 %)		
Feed in phases / connection phases	3 feed in phases / 3 connection phases		
Max. permitted grid impedance |Zmax| (EN 61000-3-11)	n/a		
Standby consumption	< 2 W		
Mains frequency	50 Hz (+/- 5 %)		
Short circuit resistance	yes		
Power factor (cos phi)	0.7 ind. ... 0.7 cap.		
Ground fault monitoring	RCD		
Interfaces			
DC connection	Multicontact MC4		
AC connection	spring clamp connectors		
Interfaces	PLATINUM® network EIA 485, 2 x RJ45 and screw terminals		
Alarm relay	-		
Appliance data			
Maximum efficiency	98.4 %	98.4 %	98.4 %
European efficiency	97.7 %	97.8 %	97.9 %
Weight	45 kg		
Dimensions	H 626 x W 547 x D 290 mm		
Operating temperature	-20 °C ... +60 °C		
Storage temperature	-25 °C ... +80 °C		
Relative humidity (non-condensing)	0 % ... 95 %		
Altitude at rated power	2,000 m / 6,560 ft		
Protection degree	IP 66 according to DIN EN 60529		
Protection class / overvoltage category	I / III		
Display	graphic LCD 170 x 76 pixels		
Data logger	storage capacity sufficient for 30 years operating time		
System topology	transformerless, DIVE®, RAC-MPP® technology		
Cooling	convection cooling		
Standards / grid codes	VDE 0126-1-1, VDE AR-N 4105, BDEW-2008, CEI 0-21, C10/11, G83/1, G59/2, EN 50438, ÖNORM E8001-4-712, UTE C15-712-1, RD 1663/661, IEC 62109, AS 4777, AS 3100		
Warranty	10 years		
Type designation	**7000 R3-MDX**	**9000 R3-MDX**	**11000 R3-MDX**

Subject to alterations. More than 45 countries are currently supported. An up-to-date type designation list can be found in the download area on our website under Certificates/Overview (as at May 2012).

Specifications

R3 Inverter	14000 R3	16000 R3
DC Input		
Max. PV power	14,600 Wp	16,900 Wp
Max. DC power (@ cos phi = 1)	13,300 W	15,350 W
MPPT voltage range	350 V ... 720 V	
Max. input voltage	900 V	
Max. MPPT input current	2 x 21 A	2 x 24 A
Number of string inputs	2 + 2	
Number of MPP trackers	1	
DC disconnect	yes	
Reverse polarity protection	yes	
DC short circuit current	29 A	33 A
Ground fault monitoring	isolation control	
AC Output		
Rated power (@ cos phi = 1)	13,000 W	15,000 W
Rated current	18.9 A	22.0 A
Max. apparent power	13,000 VA	15,000 VA
Max. AC current	22.0 A	22.0 A
Power feed starts at	20 W	
Mains output voltage	3AC 230 V / 400 V + N (+/-20 %)	
Feed in phases / connection phases	3 feed in phases / 3 connection phases	
Max. permitted grid impedance |Zmax| (EN 61000-3-11)	402 mΩ	345 mΩ
Standby consumption	< 2 W	
Mains frequency	50 Hz (+/- 5 %)	
Short circuit resistance	yes	
Power factor (cos phi)	0.7 ind. ... 0.7 cap.	
Ground fault monitoring	RCD	
Interfaces		
DC connection	Multicontact MC4	
AC connection	spring clamp connectors	
Interfaces	PLATINUM® network EIA 485, 2 x RJ45 and screw terminals	
Alarm relay	-	
Appliance data		
Maximum efficiency	98.4 %	98.4 %
European efficiency	98.0 %	98.0 %
Weight	45 kg	
Dimensions	H 626 x W 547 x D 290 mm	
Operating temperature	-20 °C ... +60 °C	
Storage temperature	-25 °C ... +80 °C	
Relative humidity (non-condensing)	0 % ... 95 %	
Altitude at rated power	2,000 m / 6,560 ft	
Protection degree	IP 66 according to DIN EN 60529	
Protection class / overvoltage category	I / III	
Display	graphic LCD 170 x 76 pixels	
Data logger	storage capacity sufficient for 30 years operating time	
System topology	transformerless, DIVE®, RAC-MPP® technology	
Cooling	convection cooling	
Standards / grid codes	VDE 0126-1-1, VDE AR-N 4105, BDEW-2008, CEI 0-21, C10/11, G83/1, G59/2, EN 50438, ÖNORM E8001-4-712, UTE C15-712-1, RD 1663/661, IEC 62109, AS 4777, AS 3100	
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