


Brings an extra tracker into the game.
The PLATINUM® R3-M2 inverter.



 DUAL-X®	 Boost MPP	 10 Warranty	 2 MPP-Tracker	 10% Reactive power	 Outdoor IP 66
 Shading	 Three-phase	 98,6% Efficiency	 < 25 kW	 10 –100 kW	 > 100 kW

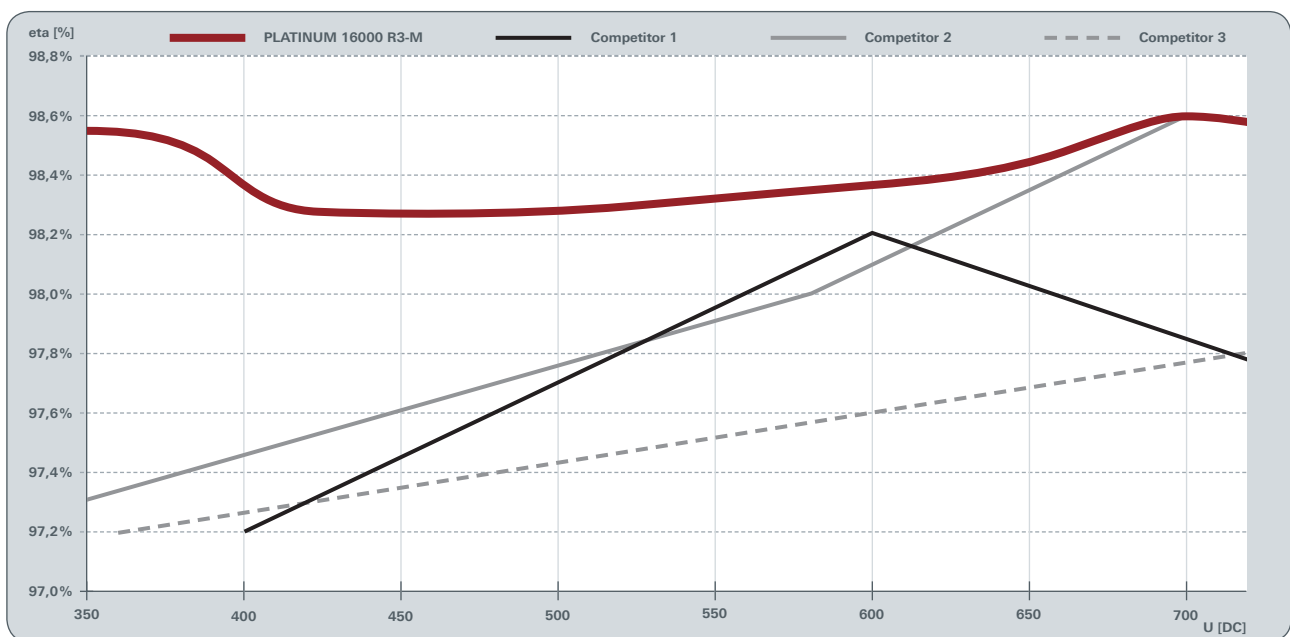
All PLATINUM® R3 models are compliant with the “Energy Management (§6 EEG)” market requirement specification, the “Technical Guidelines for Power Generating Plants Connected to the Medium Voltage Grid” and the “Low-voltage Directive AR-N-4105” as of its coming into effect as the successor directive of VDE 0126-1-1.

PLATINUM®
Next Energy Solution.

With its additional MPP tracker, this transformerless, three-phase high-performance inverter R3-M2 increases the design flexibility of the PLATINUM® R3 family: ideal for partially shaded roofs, east-west facing roofs or roof/garage combinations. Thanks to the innovative DUAL-X® technology, it achieves a peak efficiency of 98.6 %. A 10 % increase of apparent power over effective power enables the ratings of medium-voltage systems to be maximised. The pure convection cooling reduces maintenance requirements and noise levels. The ease of installation and commissioning are assured by the low weight and automatic master programming via the PLATINUM® network EIA 485. The graphics display shows all important operating data in a clearly legible display – even during the night. Four models from 9 to 16 kW are available.

- Efficiency 98.6 %
- 2 MPP trackers for the utmost design flexibility
- Maximised ratings in medium-voltage plants thanks to 10 % increase in apparent power
- DIVE® technology for increased efficiency in the lower power output range
- RAC-MPP® technology for rapid MPP tracking
- Pure convection cooling reduces maintenance requirements and noise levels
- Integrated datalogger provides storage capacity for 30 years worth of operating data
- Suitable for universal use thanks to multi-country configuration
- Free 10-year manufacturer's warranty

Impresses in direct comparisons – also in terms of design flexibility.



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	9000 R3-M2	11000 R3-M2
DC Input		
Max. PV power	9,000 Wp	11,200 Wp
Max. DC power (@ cos phi = 1)	8,200 W	10,250 W
MPPT voltage range	350 V / 150 ... 720 V	
Max. input voltage	900 V	
Max. MPPT inout current	2 x 13 A / 9.5 A	2 x 16 A / 9.5 A
Number of string inputs	1 + 1 / 1	2 + 2 / 1
Number of MPP trackers	2	
DC disconnect	●	
DC short circuit current	18 A / 14 A	22 A / 14 A
Reverse polarity protection / Ground fault monitoring (isolation check)	● / ●	
AC Output		
Rated power (@ cos phi = 1)	8,000 W	10,000 W
Rated current	3 x 11.6 A	3 x 14.5 A
Max. apparent power	8,900 VA	11,200 VA
Max. AC current	3 x 13.1 A	3 x 20 A
Power feed starts at	20 W	
Mains output voltage	3AC 230 V / 400 V (+/-20 %)	
Feed in phases / connection phases	3 / 3	
Max. permitted grid impedance [Zmax] (EN 61000-3-11)	-	
Standby consumption	1 W	
Mains frequency	50 Hz (+/-5 %)	
Power factor (cos phi) (ind ... kap)	0.7 ... 0.7	
Short circuit resistance / Ground fault monitoring (RCD)	● / ●	
Interfaces		
DC connection	MC4	
AC connection	Spring clamp connectors	
RS 485 (Clamps / RJ45)	● / ●	
Ethernet / CAN	- / -	
Integrated web server	-	
Alarm relay	-	
Appliance data		
Max. efficiency	98.5 %	98.6 %
European efficiency	98.2 %	98.3 %
Weight	37 kg	45 kg
Dimensions (H x W x D in mm)	626 x 547 x 290	
Operating temperature	-20 ... +60 °C	
Storage temperature	-25 ... +80 °C	
Relative humidity	0 ... 95 %	
Altitude at rated power	2,000 m / 6,560 ft	
Protection degree (except digital interface)	IP 66	
Protection class / overvoltage category	I / Type 3	
Full graphic display (color / monochrome)	- / ●	
Storage capacity data logger	30 years	
System topology	Transformerless	
Cooling	Convection	
Standards / grid codes	VDE 0126-1-1, VDE AR-N 4105, BDEW 2008, CEI 0-21, C10/11, G83/2, G59/2, EN 50438, ÖNORM E8001-4-712, UTE C15-712-1, RD 1699/661, IEC 62109, AS 4777, AS 3100	
Warranty	10 years	
Type designation	9000 R3-M2DXB	11000 R3-M2DXB

Subject to alterations. Valid as of 04/2013. More than 45 countries are currently supported. The current list is available from the download area of our homepage www.platinum-nes.com

● Standard ○ Optional - Not available

Specifications

R3 inverter	14000 R3-M2	16000 R3-M2
DC Input		
Max. PV power	15,200 Wp	16,900 Wp
Max. DC power (@ cos phi = 1)	13,800 W	15,350 W
MPPT voltage range	350 V / 150 ... 720 V	
Max. input voltage	900 V	
Max. MPPT inout current	2 x 21 A / 9.5 A	2 x 24 A / 9.5 A
Number of string inputs	2 + 2 / 1	
Number of MPP trackers	2	
DC disconnecter	●	
DC short circuit current	29 A / 14 A	33 A / 14 A
Reverse polarity protection / Ground fault monitoring (isolation check)	● / ●	
AC Output		
Rated power (@ cos phi = 1)	13,500 W	15,000 W
Rated current	3 x 19.6 A	3 x 21.7 A
Max. apparent power	15,000 VA	16,700 VA
Max. AC current	3 x 24.2 A	
Power feed starts at	20 W	
Mains output voltage	3AC 230 V / 400 V (+/-20 %)	
Feed in phases / connection phases	3 / 3	
Max. permitted grid impedance <small>[Z_{max}] (EN 61000-3-11)</small>	-	
Standby consumption	1 W	
Mains frequency	50 Hz (+/-5 %)	
Power factor <small>(cos phi) (ind ... kap)</small>	0.7 ... 0.7	
Short circuit resistance / Ground fault monitoring (RCD)	● / ●	
Interfaces		
DC connection	MC4	
AC connection	Spring clamp connectors	
RS 485 (Clamps / RJ45)	● / ●	
Ethernet / CAN	- / -	
Integrated web server	-	
Alarm relay	-	
Appliance data		
Max. efficiency	98.6 %	
European efficiency	98.3 %	
Weight	45 kg	
Dimensions (H x W x D in mm)	626 x 547 x 290	
Operating temperature	-20 ... +60 °C	
Storage temperature	-25 ... +80 °C	
Relative humidity	0 ... 95 %	
Altitude at rated power	2,000 m / 6,560 ft	
Protection degree <small>(except digital interface)</small>	IP 66	
Protection class / overvoltage category	I / Type 3	
Full graphic display <small>(color / monochrome)</small>	- / ●	
Storage capacity data logger	30 years	
System topology	Transformerless	
Cooling	Convection	
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An independent player in the market. The company PLATINUM®.

Originally set up by Diehl Controls, PLATINUM® is trading since 1st April 2013 as an autonomous company belonging to the mutares AG, Munich. So the premium brand from the Allgäu, Germany can distinguish and rise even more. But the same competent, effective and highly capable team is working behind the scenes. The inverters are still manufactured in the Allgäu by Diehl Controls while PLATINUM® develops and sells the inverters.

Therefore the product quality remains at the usual high standard while the strategic new realigned PLATINUM® will set their focus even more on intense consulting, service and training. Our promise: Next energy solution.



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