## Excellent in small systems. The PLATINUM® R3-S2 inverter.























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.



The transformerless high-performance inverter PLATINUM® R3-S2 is the ideal solution for privately owned photovoltaic systems. The little brother of the R3-M delivers an impressive peak efficiency of 98.5 %. Thanks to its two boost trackers, it has a particularly advantageous MPP voltage range and offers maximum flexibility - for example, for connections to east-west roofs, dormer windows or garages. Just like all of the other R3 inverters, it offers IP 66 protection for use outdoors. Its passive ventilation reduces noise levels and maintenance requirements. The unit is easy to install, and master programming is performed automatically via the PLATINUM® network EIA 485. The graphics display shows all important operating data in a clearly legible display - even during the night. The range includes four models from 5 to 9 kW.

- Maximum efficiency 98.5 %
- 2 MPP trackers for the utmost design flexibility
- 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
- Maximised ratings in medium-voltage plants thanks to 10 % increase in apparent power
- Free 10-year manufacturer's warranty

Whether east-west, garage or dormer roof. The R3-S2 inverter is the perfect solution for tricky challenges.







Even in non-standard irradiation scenarios like shading, inclined roofs and roofs facing different directions, the R3-S2 secures optimised yields due to its two flexible trackers.

Specifications		
R3 inverter	5500 R3-S2	7000 R3-S2
DC Input		
Max. PV power	5,700 Wp	6,900 Wp
Max. DC power (@ cos phi = 1)	5,200 W	6,250 W
MPPT voltage range	150 7	20 V
Max. input voltage	900 V	
Max. MPPT inout current	2 x 9.5 A	
Number of string inputs	2	
Number of MPP trackers	2	
DC disconnector	•	
DC short circuit current	2 x 14 A	
Reverse polarity protection / Ground fault monitoring	∠x 14 A • / •	
(isolation check)	• / •	
AC Output		
Rated power (@ cos phi = 1)	5,000 W	6,000 W
Rated current	3 x 7.2 A	3 x 8.7 A
Max. apparent power	5,600 VA	6,700 VA
Max. AC current	3 x 9.9 A	3 x 11.9 A
Power feed starts at	20 V	V
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	MC	1
AC connection	Spring clamp connectors	
RS 485 (Clamps / RJ45)		
Ethernet / CAN	• / •	
	-/-	
Integrated web server	-	
Alarm relay	-	
Appliance data		
Max. efficiency	98.5 %	
European efficiency	98.2 %	
Weight	37 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)	<b>-/•</b>	
Storage capacity data logger	30 years	
System topology	Transformerless	
Cooling	Convection	
Standards / grid codes	VDE 0126-1-1, VDE AR-N 4105, 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	5500 R3-S2B	7000 R3-S2B

Specifications		
R3 inverter	8000 R3-S2	9000 R3-S2
DC Input		
Max. PV power	8,000 Wp	9,100 Wp
Max. DC power (@ cos phi = 1)	7,300 W	8,300 W
MPPT voltage range	150 72	·
Max. input voltage	900 V	
Max. MPPT inout current	2 x 9.5 A	
Number of string inputs	2	
Number of MPP trackers	2	
DC disconnector	•	
DC short circuit current	2 x 14 A	
Reverse polarity protection / Ground fault monitoring	∠x 14 A • / •	
(isolation check)	• / •	•
AC Output		
Rated power (@ cos phi = 1)	7,000 W	8,000 W
Rated current	3 x 10.1 A	3 x 11.6 A
Max. apparent power	7,800 VA	8,900 VA
Max. AC current	3 x 13 A	3 x 13.1 A
Power feed starts at	20 W	1
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 %	
European efficiency	98.2 %	
Weight	37 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)	<b>-/•</b>	
Storage capacity data logger	30 years	
System topology	Transformerless	
Cooling	Convection	
Standards / grid codes	VDE 0126-1-1, VDE AR-N 4105, 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	8000 R3-S2B	9000 R3-S2B

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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