

Inverters.  
The product range.



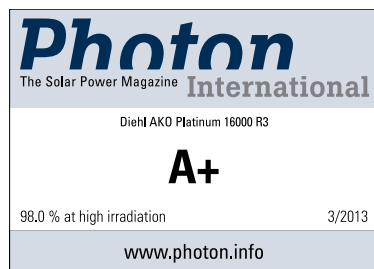
**PLATINUM<sup>®</sup>**  
Next Energy Solution.

Tested and rated "A+".  
The PLATINUM® R3  
receives a seal of approval  
from PHOTON.

Only the best is in first place. The PLATINUM® R3 receives the PHOTON seal of approval with the rating "A+". The inverter test from PHOTON supports the PV system operators in their decision. The efficiency determined by PHOTON is tested under exacerbated circumstances. Anyone who makes the grade in this test is really good – just like the PLATINUM® R3.

After testing the PLATINUM® R3 and putting the 16000 R3-M inverter through its paces, the PHOTON test laboratory has determined an overall efficiency of 98.0% in high irradiation conditions for the inverter from Wangen im Allgäu.

The PHOTON test laboratory has been testing inverters since 2007. The PHOTON test takes all influencing factors, such as the input voltage range into account. That makes it comparable with other inverters. The test results are published in the PHOTON magazines on a regular basis.



## Specifications

Inverter	5500 R3-S2	7000 R3-S2
<b>DC Input</b>		
Max. PV power	5,700 Wp	6,900 Wp
Max. DC power	5,200 W	6,250 W
MPPT voltage range	150 ... 720 V / 150 ... 720 V	
Max. input voltage	900 V	
Max. MPPT input current	9.5 A / 9.5 A	
Number of string inputs	1/1	
Number of MPP trackers	2	
DC disconnecter	●	
DC short circuit current	14 A / 14 A	
Reverse polarity protection / Ground fault monitoring (isolation check)	● / ●	
<b>AC Output</b>		
Rated power	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 W	
Mains output voltage	3AC 230 V / 400 V (+/-20 %)	
Feed in phases / connection phases	3 / 3	
Max. permitted grid impedance $[Z_{max}]$ (EN 61000-3-11)	-	
Standby consumption	1 W	
Mains frequency	50 Hz (+/-5 %)	
Power factor (cos phi) (ind ... cap)	0.7 ... 0.7	
Short circuit resistance / Ground fault monitoring (RCD)	● / ●	
<b>Interfaces</b>		
DC connection	MC4	
AC connection	Spring clamp connectors	
RS 485 (Clamps / RJ45)	● / ●	
Ethernet / CAN	- / -	
Integrated web server	-	
Alarm relay	-	
<b>Appliance data</b>		
Maximum 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 %	
Sound pressure level	< 32 dB (A)	
Protection degree (DIN EN 60529)	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	Overview at <a href="http://www.platinum-nes.com">www.platinum-nes.com</a>	
Warranty	10 years	
<b>Type designation</b>	<b>5500 R3-S2B</b>	<b>7000 R3-S2B</b>

● Standard ○ Optional - Not available

8000 R3-S2	9000 R3-S2
<b>8000 R3-S2</b>	
8,000 Wp	9,100 Wp
7,300 W	8,300 W
150 ... 720 V / 150 ... 720 V	
900 V	
9.5 A / 9.5 A	
1/1	
2	
●	
14 A / 14 A	
● / ●	
<b>8000 R3-S2</b>	
7,000 W	8,000 W
3 x 10.1 A	3 x 11.6 A
7,800 VA	8,900 VA
3 x 13 A	3 x 13.1 A
20 W	
3AC 230 V / 400 V (+/-20 %)	
3 / 3	
-	
1 W	
50 Hz (+/-5 %)	
0.7 ... 0.7	
● / ●	
<b>9000 R3-S2</b>	
MC4	
Spring clamp connectors	
● / ●	
- / -	
-	
-	
<b>9000 R3-S2</b>	
98.5 %	
98.2 %	
37 kg	
626 x 547 x 290	
-20 ... +60 °C	
-25 ... +80 °C	
0 ... 95 %	
< 32 dB (A)	
IP 66	
I / Type 3	
- / ●	
30 years	
Transformerless	
Convection	
Overview at <a href="http://www.platinum-nes.com">www.platinum-nes.com</a>	
10 years	
<b>8000 R3-S2B</b>	<b>9000 R3-S2B</b>

Subject to alterations. Valid as of 01/2014.

## Specifications

Inverter	7000 R3-M	9000 R3-M
<b>DC Input</b>		
Max. PV power	6,700 Wp	9,000 Wp
Max. DC power (@ cos phi = 1)	6,150 W	8,200 W
MPPT voltage range	350 ... 720 V	
Max. input voltage	900 V	
Max. MPPT input current	2 x 10 A	2 x 13 A
Number of string inputs	1 + 1	
Number of MPP trackers	1	
DC disconnecter	●	
DC short circuit current	2 x 14 A	2 x 18 A
Reverse polarity protection / Ground fault monitoring (isolation check)	● / ●	
<b>AC Output</b>		
Rated power (@ cos phi = 1)	6,000 W	8,000 W
Rated current	3 x 8.7 A	3 x 11.6 A
Max. apparent power	6,700 VA	8,900 VA
Max. AC current	3 x 11.9 A	3 x 13.1 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 $[Z_{max}]$ (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)	● / ●	
<b>Interfaces</b>		
DC connection	MC4	
AC connection	Spring clamp connectors	
RS 485 (Clamps / RJ45)	● / ●	
Ethernet / CAN	- / -	
Integrated web server	-	
Alarm relay	-	
<b>Appliance data</b>		
Maximum efficiency	98.5 %	
European efficiency	98.2 %	
Weight	36 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 %	
Sound pressure level	< 32 dB (A)	
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	Overview at <a href="http://www.platinum-nes.com">www.platinum-nes.com</a>	
Warranty	10 years	
Type designation	7000 R3-MDX-10	9000 R3-MDX-10

● Standard ○ Optional - Not available

11000 R3-M	14000 R3-M	16000 R3-M	
11,200 Wp	15,200 Wp	16,900 Wp	
10,250 Wp	13,800 W	15,350 W	
350 ... 720 V			
900 V			
2 x 16 A	2 x 21 A	2 x 24 A	
1 + 1	2 + 2		
1			
●			
2 x 22 A	2 x 29 A	2 x 33 A	
● / ●			
<b>11000 R3-MDX-10</b>			
10,000 W	13,500 W	15,000 W	
3 x 14.5 A	3 x 19.6 A	3 x 21.7 A	
11,200 VA	15,000 VA	16,700 VA	
3 x 20 A	3 x 24.2 A		
20 W			
3AC 230 V / 400 V (+/-20 %)			
3 / 3			
-			
1 W			
50 Hz (+/-5 %)			
0.7 ... 0.7			
● / ●			
<b>14000 R3-MDX-10</b>			
MC4			
Spring clamp connectors			
● / ●			
- / -			
-			
-			
<b>16000 R3-MDX-10</b>			
98.6 %			
98.3 %			
44 kg			
626 x 547 x 290			
-20 ... +60 °C			
-25 ... +80 °C			
0 ... 95 %			
< 32 dB (A)			
IP 66			
I / Type 3			
- / ●			
30 years			
Transformerless			
Convection			
Overview at <a href="http://www.platinum-nes.com">www.platinum-nes.com</a>			
10 years			
Type designation	11000 R3-MDX-10	14000 R3-MDX-10	16000 R3-MDX-10

Subject to alterations. Valid as of 01/2014.

## Specifications

	11000 R3-M2
<b>Inverter</b>	
<b>DC Input</b>	
Max. PV power	11,200 Wp
Max. DC power (@ cos phi = 1)	10,250 W
MPPT voltage range	350 ... 720 V / 150 ... 720 V
Max. input voltage	900 V
Max. MPPT input current	2 x 16 A / 9.5 A
Number of string inputs	1 + 1 / 1
Number of MPP trackers	2
DC disconnecter	●
DC short circuit current	2 x 22 A / 14 A
Reverse polarity protection / Ground fault monitoring (isolation check)	● / ●
<b>AC Output</b>	
Rated power (@ cos phi = 1)	10,000 W
Rated current	3 x 14.5 A
Max. apparent power	11,200 VA
Max. AC current	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  Z <sub>max</sub>   (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)	● / ●
<b>Interfaces</b>	
DC connection	MC4
AC connection	Spring clamp connectors
RS 485 (Clamps / RJ45)	● / ●
Ethernet / CAN	- / -
Integrated web server	-
Alarm relay	-
<b>Appliance data</b>	
Maximum 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 %
Sound pressure level	< 32 dB (A)
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	Overview at <a href="http://www.platinum-nes.com">www.platinum-nes.com</a>
Warranty	10 years
Type designation	11000 R3-M2DXB

● Standard ○ Optional - Not available

14000 R3-M2	16000 R3-M2	16000 R3-M-6PACK	
<b>DC Input</b>			
15,200 Wp	16,900 Wp		
13,800 W	15,350 W		
350 ... 720 V / 150 ... 720 V		350 V ... 720 V	
900 V			
2 x 21 A / 9.5 A	2 x 24 A / 9.5 A	2 x 24 A	
2 + 2 / 1		1 + 1	
2		1	
●			
2 x 29 A / 14 A	2 x 33 A / 14 A	2 x 33 A	
● / ●			
<b>AC Output</b>			
13,500 W	15,000 W		
3 x 19.6 A	3 x 21.7 A		
15,000 VA	16,700 VA		
3 x 24.2 A			
20 W			
3AC 230 V / 400 V (+/-20 %)			
3 / 3			
-			
1 W			
50 Hz (+/-5 %)			
0.7 ... 0.7			
● / ●			
<b>Interfaces</b>			
MC4			
Spring clamp connectors			
● / ●			
- / -			
-			
-			
<b>Appliance data</b>			
98.6 %			
98.3 %			
45 kg	44 kg		
626 x 547 x 290			
-20 ... +60 °C			
-25 ... +80 °C			
0 ... 95 %			
< 32 dB (A)			
IP 66			
I / Type 3			
- / ●			
30 years			
Transformerless			
Convection			
Overview at <a href="http://www.platinum-nes.com">www.platinum-nes.com</a>			
10 years			
Type designation	14000 R3-M2DXB	16000 R3-M2DXB	16000 R3-MDX-10-6PACK

Subject to alterations. Valid as of 01/2014.

Specifications		
Inverter	19000 TL	22000 TL
<b>DC Input</b>		
Max. PV power	21,300 Wp	24,000 Wp
Max. DC power (@ cos phi = 1)	18,900 W	21,600 W
MPPT voltage range	3 x 350 ... 710 V	3 x 351 ... 710 V
Max. input voltage	880 V	
Max. MPPT input current	3 x 18.5 A	3 x 21 A
Number of string inputs	2 / 2	
Number of MPP trackers	3	
DC disconnecter	o	
DC short circuit current	3 x 26 A	3 x 29 A
Reverse polarity protection / Ground fault monitoring (isolation check)	● / ●	
<b>AC Output</b>		
Rated power (@ cos phi = 1)	18,000 W	20,700 W
Rated current	3 x 26.1 A	3 x 30 A
Max. apparent power	18,000 VA	20,700 VA
Max. AC current	3 x 26.1 A	3 x 30 A
Power feed starts at	24 W	
Mains output voltage	3AC 230 V / 400 V (+/-20 %)	
Feed in phases / connection phases	3 / 3	
Max. permitted grid impedance  Z <sub>max</sub>   (EN 61000-3-11)	290 mΩ	253 mΩ
Standby consumption	3 W	
Mains frequency	50 Hz (+/-5 %)	
Power factor (cos phi) (ind ... kap)	0.7 ... 0.7	
Short circuit resistance / Ground fault monitoring (RCD)	● / ●	
<b>Interfaces</b>		
DC connection	MC4	
AC connection	Spring clamp connectors	
RS 485 (Clamps / RJ45)	● / ●	
Ethernet / CAN	- / -	
Integrated web server	-	
Alarm relay	24 V <sub>AC</sub> / 2 A	
<b>Appliance data</b>		
Maximum efficiency	97.9 %	98.0 %
European efficiency	97.5 %	
Weight	87 kg	
Dimensions (H x W x D in mm)	743 x 972 x 262	
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 65	
Protection class / overvoltage category	I / Type 3	
Full graphic display (color / monochrome)	- / ●	
Storage capacity data logger	30 years	
System topology	Transformerless	
Cooling	Fan	
Standards / grid codes	Overview at <a href="http://www.platinum-nes.com">www.platinum-nes.com</a>	
Warranty	10 years	
<b>Type designation</b>	<b>19000 TLD</b>	<b>22000 TLD</b>

● Standard o Optional - Not available

3801 TL	3800 TL	4300 TL	4800 TL	5300 TL
4,000 Wp	4,300 Wp	4,900 Wp	5,400 Wp	6,000 Wp
3,480 W	3,800 W	4,300 W	4,800 W	5,300 W
349 ... 710 V	350 ... 710 V	351 ... 710 V	348 ... 710 V	349 ... 710 V
880 V				
10.5 A	11.5 A	13 A	14.5 A	16 A
1				
1				
o				
15 A	16 A	18 A	20 A	22 A
● / ●				
<b>3,330 W</b>				
3,330 W	3,680 W	4,120 W	4,600 W	5,000 W
14.5 A	16 A	17.9 A	20 A	21.7 A
3,330 VA	3,680 VA	4,120 VA	4,600 VA	5,000 VA
14.5 A	16 A	17.9 A	20 A	21.7 A
7 W				
230 V (+/-20 %)				
1 / 1 or 3				
-	424 mΩ	379 mΩ	349 mΩ	
1 W				
50 Hz (+/-5 %)				
0.7 ... 0.7				
● / ●				
<b>MC4</b>				
Spring clamp connectors				
● / ●				
- / -				
-				
24 V <sub>AC</sub> / 2 A				
<b>97.7 %</b>				
97.4 %				
27 kg				28 kg
720 x 320 x 250				
-20 ... +60 °C				
-25 ... +80 °C				
0 ... 95 %				
2,000 m / 6,560 ft				
IP 66				
I / Type 3				
- / ●				
30 years				
Transformerless				
Convection		Fan		
Overview at <a href="http://www.platinum-nes.com">www.platinum-nes.com</a>				
10 years				
<b>3801 TLD</b>	<b>3800 TLD</b>	<b>4300 TLD</b>	<b>4800 TLD</b>	<b>5300 TLD</b>

Subject to alterations. Valid as of 01/2014.

Specifications		
Inverter	2100 H	3000 H
<b>DC Input</b>		
Max. PV power	2,350 Wp	3,450 Wp
Max. DC power (@ cos phi = 1)	2,100 W	3,000 W
MPPT voltage range	230 ... 480 V	
Max. input voltage	600 V	
Max. MPPT input current	9.5 A	13.5 A
Number of string inputs	3	
Number of MPP trackers	1	
DC disconnecter	○	
DC short circuit current	14.2 A	20.2 A
Reverse polarity protection / Ground fault monitoring (isolation check)	● / ●	
<b>AC Output</b>		
Rated power (@ cos phi = 1)	2,000 W	2,900 W
Rated current	9 A	13 A
Max. apparent power	2,000 VA	2,900 VA
Max. AC current	10,5 A	15,2 A
Power feed starts at	7 W	
Mains output voltage	230 V (+/-20 %)	
Feed in phases / connection phases	1 / 1	
Max. permitted grid impedance $[Z_{max}]$ (EN 61000-3-11)	-	
Standby consumption	1 W	
Mains frequency	50 Hz (+/-10 %)	
Power factor (cos phi) (ind ... kap)	0.9 ... 0.9	
Short circuit resistance / Ground fault monitoring (RCD)	● / -	
<b>Interfaces</b>		
DC connection	MC4	
AC connection	Spring clamp connectors	
RS 485 (Clamps / RJ45)	● / -	
Ethernet / CAN	● / ●	
Integrated web server	●	
Alarm relay	-	
<b>Appliance data</b>		
Maximum efficiency	96.9 %	97.0 %
European efficiency	96.0 %	96.2 %
Weight	19 kg	
Dimensions (H x W x D in mm)	610 x 353 x 154	
Operating temperature	-25 ... +65 °C	
Storage temperature	-30 ... +80 °C	
Relative humidity	4 ... 99 %	
Altitude at rated power	2,000 m / 6,560 ft	
Protection degree (except digital interface)	IP 65	
Protection class / overvoltage category	I / Type 3	
Full graphic display (color / monochrome)	● / -	
Storage capacity data logger	30 years	
System topology	HF-transformer	
Cooling	Fan	
Standards / grid codes	Overview at <a href="http://www.platinum-nes.com">www.platinum-nes.com</a>	
Warranty	10 years	
<b>Type designation</b>	<b>2100 H</b>	<b>3000 H</b>

● Standard ○ Optional - Not available

Specifications		
	4000 H	4600 H
	4,450 Wp	5,150 Wp
	4,000 W	4,600 W
	230 ... 480 V	
	600 V	
	18 A	21 A
	3	
	1	
	○	
	27 A	31.5 A
	● / ●	
	3,800 W	4,400 W
	17 A (16 A*)	20 A (16 A*)
	3,800 VA	4,400 VA
	19,7 A	23 A
	7 W	
	230 V (+/-20 %)	
	1 / 1	
	446 mΩ	379 mΩ
	1 W	
	50 Hz (+/-10 %)	
	0.9 ... 0.9	
	● / -	
	MC4	
	Spring clamp connectors	
	● / -	
	● / ●	
	●	
	-	
	97.2 %	97.3 %
	96.6 %	96.9 %
	21 kg	
	610 x 353 x 154	
	-25 ... +65 °C	
	-30 ... +80 °C	
	4 ... 99 %	
	2,000 m / 6,560 ft	
	IP 65	
	I / Type 3	
	● / -	
	30 years	
	HF-transformer	
	Fan	
	Overview at <a href="http://www.platinum-nes.com">www.platinum-nes.com</a>	
	10 years	
	<b>4000 H</b>	<b>4600 H</b>

Subject to alterations. Valid as of 01/2014.

\*UK and Denmark: Adjustable current limit of 16 A

## German Efficiency. PLATINUM®.

Since the founding in 2004, PLATINUM® inverters rank among the Champions League of the international inverter manufacturers. Continuing innovativeness and a unique service pledge helped PLATINUM® to secure its position as a premium manufacturer for string inverters. As of today, the installed base is above one gigawatt worldwide. The award-winning inverters convince through the highest protection degree in the market and maximum efficiency of 98.6% in a surpassingly wide voltage range.

Development, production and service is handled in the headquarters in Wangen im Allgäu. From here "Made in Germany" is lived as our promise to our customers. The electro-technical know-how of Diehl Controls assures the highest possible quality. PLATINUM® vouches for this quality level by delivering its products with a standard warranty of 10 years. PLATINUM® - Next Energy Solution.





**PLATINUM GmbH**

Pfannerstraße 75

88239 Wangen im Allgäu, Germany

Tel: +49 7522 9738-0

Fax: +49 7522 9738-100

[www.platinum-nes.com](http://www.platinum-nes.com)