

Inverters.
The product range.



PLATINUM®
Brings more sun to the grid.

Energy efficiency as a philosophy. What drives the company.

Diehl Controls, a division of the Diehl Group, is home to the Diehl AKO®, PLATINUM® and Diehl Smart Home® brands. Whether for household appliances or photovoltaics – the main aim of all our products is the efficient use of energy. To achieve this, Diehl Controls offers practical solutions that promote the sustainable use of resources, thereby making an active contribution to protecting the environment and preserving our habitats. We are also motivated by the local area of outstanding natural beauty of the Allgäu and Lake Constance region. These values are integrated in our processes, production plants and products.

Under the PLATINUM® brand, which was founded in 2004, the company develops, manufactures and markets solar inverters that offer maximum performance.



A woman with dark hair, wearing a dark blue V-neck t-shirt with the 'DIEHL Controls' logo, is smiling and working on a piece of electronic equipment. She is in a factory or workshop environment with various metal frames and equipment visible in the background. The equipment she is working on has a yellow label and some wiring.

One employee, one product. Individualised manufacturing.

A highly sophisticated manufacturing process is the basis for the outstanding PLATINUM® quality. We work according to the following principle: "One employee manufactures one device." After all, if you follow a workpiece through all of the production steps to create 'your own' product, you identify with it and so handle it in a highly responsible and quality-conscious manner.

Quality-conscious employees, automatic quality control and system monitoring of the entire PLATINUM® production process help to achieve the required level of excellence. Another benefit of the one-piece-flow principle is that it allows products to be developed on an individual basis, which means that we can deliver customised device variants.

Specifications
Inverter
DC Input
Max. PV power
Max. DC power (@ cos phi = 1)
MPPT voltage range
Max. input voltage
Max. MPPT input current
Number of string inputs
Number of MPP trackers
DC disconnect
Reverse polarity protection
DC short circuit current
Ground fault monitoring
AC Output
Rated power (@ cos phi = 1)
Rated current
Max. apparent power
Max. AC current
Power feed starts at
Mains output voltage
Feed in phases / connection phases
Max. permitted grid impedance [Zmax] (EN 61000-3-11)
Standby consumption
Mains frequency
Short circuit resistance
Power factor (cos phi)
Ground fault monitoring
Interfaces
DC connection
AC connection
Interfaces
Alarm relay
Appliance data
Maximum efficiency
European efficiency
Weight
Dimensions
Operating temperature
Storage temperature
Relative humidity (non-condensing)
Altitude at rated power
Protection degree (except digital interface)
Protection class / overvoltage category
Display
Data logger
System topology
Cooling
Standards / grid codes
Warranty
Type designation

Subject to alterations.

2100 S	2800 S	3100 S	3800 S
2,300 Wp	3,200 Wp	3,450 Wp	4,200 Wp
2,100 W	2,800 W	3,100 W	3,800 W
206 V ... 390 V	313 V ... 630 V	314 V ... 630 V	315 V ... 630 V
480 V	780 V	780 V	780 V
9.0 A	9.0 A	9.0 A	12.0 A
1	1	1	2
1			
optional, device integrated			
yes			
13 A	13 A	13 A	17 A
isolation control (can be activated)			
1,750 W	2,400 W	2,550 W	3,300 W
7.6 A	10.4 A	11.1 A	14.3 A
1,900 VA	2,600 VA	2,800 VA	3,600 VA
8.3 A	11.3 A	12.2 A	15.7 A
13 W	14 W	14 W	18 W
230 V (+/-20 %)			
1 feed in phase / 1 or 3 connection phases			
n/a			
<2.5 W			
50 Hz (+/-5 %)			
yes			
1			
-			
Multicontact MC4			
Wieland RST 3i / 5i			
PLATINUM® network EIA 485, 2 x RJ45 and screw terminals			
max. 24 V _{AC} / 2 A, screw terminals			
94.7 %	95.3 %	95.3 %	95.6 %
93.7 %	94.4 %	94.4 %	94.6 %
30 kg	35 kg	35 kg	42 kg
H 720 x W 320 x D 250 mm			
-20 °C ... +60 °C			
-25 °C ... +80 °C			
0 % ... 95 %			
2,000 m / 6,560 ft			
IP 54 according to DIN EN 60529			
I / III			
graphic LCD 170 x 76 pixels			
storage capacity sufficient for 30 years operating time			
LF transformer, RAC-MPP® technology			
convection cooling	fan		
VDE 0126-1-1, C10/11, G83/1, G59/2, EN 50438, EN 50178, ÖNORM E8001-4-712, UTE C15-712-1, RD 1663, AS 4777, AS 3100			
10 years			
2100 S	2800 S	3100 S	3800 S

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 30 April 2012). Due to legal guidelines, this model is no longer approved for the German market.

4300 S	4301 S	4600 S	4601 S
4,800 Wp	4,800 Wp	5,100 Wp	5,100 Wp
4,300 W	4,300 W	4,600 W	4,600 W
320 V ... 630 V	277 V ... 470 V	320 V ... 630 V	278 V ... 470 V
780 V	580 V	780 V	580 V
12.5 A	15.0 A	13.0 A	16.0 A
2	2	2	2
1			
optional, device integrated			
yes			
18 A	21 A	18 A	22 A
isolation control (can be activated)			
3,680 W	3,680 W	3,800 W	3,800 W
16.0 A	16.0 A	16.5 A	16.5 A
4,050 VA	4,050 VA	4,200 VA	4,200 VA
17.6 A	17.6 A	18.3 A	18.3 A
18 W	17 W	18 W	17 W
230 V (+/-20 %)			
1 feed in phase / 1 or 3 connection phases			
n/a		460 mΩ	460 mΩ
<2.5 W			
50 Hz (+/-5 %)			
yes			
1			
-			
Multicontact MC4			
Wieland RST 3i / 5i			
PLATINUM® network EIA 485, 2 x RJ45 and screw terminals			
max. 24 V _{AC} / 2 A, screw terminals			
95.6 %	94.6 %	95.6 %	94.6 %
94.7 %	93.9 %	94.8 %	93.8 %
42 kg	43 kg	42 kg	43 kg
H 720 x W 320 x D 250 mm			
-20 °C ... +60 °C			
-25 °C ... +80 °C			
0 % ... 95 %			
2,000 m / 6,560 ft			
IP 54 according to DIN EN 60529			
I / III			
graphic LCD 170 x 76 pixels			
storage capacity sufficient for 30 years operating time			
LF transformer, RAC-MPP® technology			
fan			
VDE 0126-1-1, C10/11, G83/1, G59/2, EN 50438, EN 50178, ÖNORM E8001-4-712, UTE C15-712-1, RD 1663, AS 4777, AS 3100			
10 years			
4300 S	4301 S	4600 S	4601 S

Subject to alterations.
As at 30 April 2012



S inverters

Maximum reliability. Even under difficult conditions.



H inverters

Setting standards for insulated string inverters.



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High performance without compromise: up to 98 % efficiency.



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DC Input
Max. PV power
Max. DC power (@ cos phi = 1)
MPPT voltage range
Max. input voltage
Max. MPPT input current
Number of string inputs
Number of MPP trackers
DC disconnect
Reverse polarity protection
DC short circuit current
Ground fault monitoring
AC Output
Rated power (@ cos phi = 1)
Rated current
Max. apparent power
Max. AC current
Power feed starts at
Mains output voltage
Feed in phases / connection phases
Max. permitted grid impedance [Zmax] (EN 61000-3-11)
Standby consumption
Mains frequency
Short circuit resistance
Power factor (cos phi)
Ground fault monitoring
Interfaces
DC connection
AC connection
Interfaces
Alarm relay
Appliance data
Maximum efficiency
European efficiency
Weight
Dimensions
Operating temperature
Storage temperature
Relative humidity (non-condensing)
Altitude at rated power
Protection degree (except digital interface)
Protection class / overvoltage category
Display
Data logger
System topology
Cooling
Standards / grid codes
Warranty
Type designation


Subject to alterations.

2100 H	3000 H
2,350 Wp	3,450 Wp
2,100 W	3,000 W
230 V ... 480 V	
600 V	
9.5 A	13.5 A
3	
1	
optional, device integrated	
yes	
14.2 A	20.2 A
isolation control	
2,000 W	2,900 W
9.0 A	13.0 A
2,000 VA	2,900 VA
10.5 A	15.2 A
7 W	
230 V (+/-20 %)	
1 feed in phase / 1 connection phase	
n/a	
< 1 W	
50 Hz (+/-10 %)	
yes	
0.9 ind. ... 0.9 cap.	
-	
Multicontact MC4	
screw terminals	
Ethernet / CAN	
-	
96.9 %	97.0 %
96.0 %	96.2 %
19 kg	19 kg
H 610 x W 353 x D 154 mm	
-25 °C ... +65 °C	
-30 °C ... +80 °C	
4 % ... 99 %	
2,000 m / 6,560 ft	
IP 65 according to DIN EN 60529 (incl. digital interface)	
I / III	
graphic color LCD, three LEDs for visual status indication	
storage capacity sufficient for 20 years operating time / integrated webserver	
HF transformer with galvanic isolation	
convection cooling	
VDE 0126-1-1, VDE AR-N 4105, CEI 0-21, C10/11, G83/1, EN 50438, ÖNORM E8001-4-712, UTE C15-712-1, RD 1663, IEC 62109	
10 years	
2100 H	3000 H

*UK and Denmark: Adjustable current limit of 16 A
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4000 H	4600 H
4,450 Wp	5,150 Wp
4,000 W	4,600 W
230 V ... 480 V	
600 V	
18.0 A	21.0 A
3	
1	
optional, device integrated	
yes	
27 A	31.5 A
isolation control	
3,800 W	4,400 W
17.0 A (16.0 A*)	20.0 A (16.0 A*)
3,800 VA	4,400 VA
19.7 A	23.0 A
7 W	
230 V (+/-20 %)	
1 feed in phase / 1 connection phase	
446 mΩ	379 mΩ
< 1 W	
50 Hz (+/-10 %)	
yes	
0.9 ind. ... 0.9 cap.	
-	
Multicontact MC4	
screw terminals	
Ethernet / CAN	
-	
97.2 %	97.3 %
96.6 %	96.9 %
21 kg	21 kg
H 610 x W 353 x D 154 mm	
-25 °C ... +65 °C	
-30 °C ... +80 °C	
4 % ... 99 %	
2,000 m / 6,560 ft	
IP 65 according to DIN EN 60529 (incl. digital interface)	
I / III	
graphic color LCD, three LEDs for visual status indication	
storage capacity sufficient for 20 years operating time / integrated webserver	
HF transformer with galvanic isolation	
convection cooling	
VDE 0126-1-1, VDE AR-N 4105, CEI 0-21, C10/11, G83/1, EN 50438, ÖNORM E8001-4-712, UTE C15-712-1, RD 1663, IEC 62109	
10 years	
4000 H	4600 H

Subject to alterations.
As at 30 April 2012




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Inverter
DC Input
Max. PV power
Max. DC power (@ cos phi = 1)
MPPT voltage range
Max. input voltage
Max. MPPT input current
Number of string inputs
Number of MPP trackers
DC disconnect
Reverse polarity protection
DC short circuit current
Ground fault monitoring
AC Output
Rated power (@ cos phi = 1)
Rated current
Max. apparent power
Max. AC current
Power feed starts at
Mains output voltage
Feed in phases / connection phases
Max. permitted grid impedance [Zmax] (EN 61000-3-11)
Standby consumption
Mains frequency
Short circuit resistance
Power factor (cos phi)
Ground fault monitoring
Interfaces
DC connection
AC connection
Interfaces
Alarm relay
Appliance data
Maximum efficiency
European efficiency
Weight
Dimensions
Operating temperature
Storage temperature
Relative humidity (non-condensing)
Altitude at rated power
Protection degree (except digital interface)
Protection class / overvoltage category
Display
Data logger
System topology
Cooling
Standards / grid codes
Warranty
Type designation

Subject to alterations.

3801 TL	3800 TL	4300 TL	4800 TL
4,000 Wp	4,300 Wp	4,900 Wp	5,400 Wp
3,480 W	3,800 W	4,300 W	4,800 W
349 V ... 710 V	350 V ... 710 V	351 V ... 710 V	348 V ... 710 V
880 V			
10.5 A	11.5 A	13.0 A	14.5 A
2	2	2	2
1			
optional, device integrated			
yes			
15 A	16 A	18 A	20 A
isolation control			
3,330 W	3,680 W	4,120 W	4,600 W
14.5 A	16.0 A	17.9 A	20.0 A
3,330 VA	3,680 VA	4,120 VA	4,600 VA
14.5 A	16.0 A	17.9 A	20.0 A
7 W	7 W	7 W	7 W
230 V (+/-20 %)			
1 feed in phase / 1 or 3 connection phases			
n/a		424 mΩ	379 mΩ
< 2 W			
50 Hz (+/- 5 %)			
yes			
0.7 ind. ... 0.7 cap.			
RCD			
Multicontact MC4			
spring clamp connectors			
PLATINUM® network EIA 485, 2 x RJ45 and screw terminals			
max. 24 V _{AC} / 2 A, screw terminals			
97.7 %	97.7 %	97.7 %	97.7 %
97.4 %	97.4 %	97.4 %	97.4 %
27 kg	27 kg	27 kg	28 kg
H 720 x W 320 x D 250 mm			
-20 °C ... +60 °C			
-25 °C ... +80 °C			
0 % ... 95 %			
2,000 m / 6,560 ft			
IP 66 according to DIN EN 60529			
I / III			
graphic LCD 170 x 76 pixels			
storage capacity sufficient for 30 years operating time			
transformerless, DIVE®, RAC-MPP® technology			
convection cooling			
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			
10 years			
3801 TLD	3800 TLD	4300 TLD	4800 TLD

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.

5300 TL	6300 TL	7200 TL
6,000 Wp	7,100 Wp	8,000 Wp
5,300 W	6,300 W	7,200 W
349 V ... 710 V	350 V ... 710 V	351 V ... 710 V
880 V		
16.0 A	18.5 A	21.0 A
2	3	3
1		
optional, device integrated		
yes		
22 A	26 A	29 A
isolation control		
5,000 W	6,000 W	6,900 W
21.7 A	26.1 A	30.0 A
5,000 VA	6,000 VA	6,900 VA
21.7 A	26.1 A	30.0 A
7 W	8 W	8 W
230 V (+/-20 %)		
1 feed in phase / 1 or 3 connection phases		
349 mΩ	290 mΩ	253 mΩ
< 2 W		
50 Hz (+/- 5 %)		
yes		
0.7 ind. ... 0.7 cap.		
RCD		
Multicontact MC4		
spring clamp connectors		
PLATINUM® network EIA 485, 2 x RJ45 and screw terminals		
max. 24 V _{AC} / 2 A, screw terminals		
97.7 %	98.0 %	98.0 %
97.4 %	97.5 %	97.5 %
28 kg	29 kg	29 kg
H 720 x W 320 x D 250 mm		
-20 °C ... +60 °C		
-25 °C ... +80 °C		
0 % ... 95 %		
2,000 m / 6,560 ft		
IP 66 according to DIN EN 60529		
I / III		
graphic LCD 170 x 76 pixels		
storage capacity sufficient for 30 years operating time		
transformerless, DIVE®, RAC-MPP® technology		
fan		
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		
10 years		
5300 TLD	6300 TLD	7200 TLD

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As at 30 April 2012



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DC Input
Max. PV power
Max. DC power (@ cos phi = 1)
MPPT voltage range
Max. input voltage
Max. MPPT input current
Number of string inputs
Number of MPP trackers
DC disconnect
Reverse polarity protection
DC short circuit current
Ground fault monitoring
AC Output
Rated power (@ cos phi = 1)
Rated current
Max. apparent power
Max. AC current
Power feed starts at
Mains output voltage
Feed in phases / connection phases
Max. permitted grid impedance [Zmax] (EN 61000-3-11)
Standby consumption
Mains frequency
Short circuit resistance
Power factor (cos phi)
Ground fault monitoring
Interfaces
DC connection
AC connection
Interfaces
Alarm relay
Appliance data
Maximum efficiency
European efficiency
Weight
Dimensions
Operating temperature
Storage temperature
Relative humidity (non-condensing)
Altitude at rated power
Protection degree (except digital interface)
Protection class / overvoltage category
Display
Data logger
System topology
Cooling
Standards / grid codes
Warranty
Type designation

Subject to alterations.

13000 TL	16000 TL	19000 TL
14,700 Wp	18,000 Wp	21,300 Wp
12,900 W	15,900 W	18,900 W
351 V ... 710 V	349 V ... 710 V	350 V ... 710 V
880 V		
3 x 13.0 A	3 x 16.0 A	3 x 18.5 A
6	6	9
3		
optional, device integrated		
yes		
3 x 18 A	3 x 22 A	3 x 26 A
isolation control		
12,360 W	15,000 W	18,000 W
17.9 A	21.7 A	26.1 A
12,360 VA	15,000 VA	18,000 VA
17.9 A	21.7 A	26.1 A
21 W	21 W	24 W
3AC 230 V / 400 V + N (+/-20 %)		
3 feed in phases / 3 connection phases		
424 mΩ	349 mΩ	290 mΩ
< 6 W		
50 Hz (+/- 5 %)		
yes		
0.7 ind. ... 0.7 cap.		
RCD		
Multicontact MC4		
spring clamp connectors		
PLATINUM® network EIA 485, 2 x RJ45 and screw terminals		
max. 24 V _{AC} / 2 A, screw terminals		
97.7 %	97.7 %	98.0 %
97.4 %	97.4 %	97.5 %
81 kg	84 kg	87 kg
H 743 x W 972 x D 262 mm		
-20 °C ... +60 °C		
-25 °C ... +80 °C		
0 % ... 95 %		
2,000 m / 6,560 ft		
IP 65 according to DIN EN 60529		
I / III		
graphic LCD 170 x 76 pixels		
storage capacity sufficient for 30 years operating time		
transformerless, DIVE®, RAC-MPP® technology		
convection cooling	fan	
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		
10 years		
13000 TLD	16000 TLD	19000 TLD

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22001 TL	22000 TL
23,000 Wp	24,000 Wp
20,800 W	21,600 W
351 V ... 710 V	351 V ... 710 V
880 V	
3 x 20.2 A	3 x 21.0 A
9	9
3	
optional, device integrated	
yes	
3 x 28 A	3 x 29 A
isolation control	
20,000 W	20,700 W
29.0 A	30.0 A
20,000 VA	20,700 VA
29.0 A	30.0 A
24 W	24 W
3AC 230 V / 400 V + N (+/-20 %)	
3 feed in phases / 3 connection phases	
261 mΩ	253 mΩ
< 6 W	
50 Hz (+/- 5 %)	
yes	
0.7 ind. ... 0.7 cap.	
RCD	
Multicontact MC4	
spring clamp connectors	
PLATINUM® network EIA 485, 2 x RJ45 and screw terminals	
max. 24 V _{AC} / 2 A, screw terminals	
98.0 %	98.0 %
97.5 %	97.5 %
87 kg	87 kg
H 743 x W 972 x D 262 mm	
-20 °C ... +60 °C	
-25 °C ... +80 °C	
0 % ... 95 %	
2,000 m / 6,560 ft	
IP 65 according to DIN EN 60529	
I / III	
graphic LCD 170 x 76 pixels	
storage capacity sufficient for 30 years operating time	
transformerless, DIVE®, RAC-MPP® technology	
fan	
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	
10 years	
22001 TLD	22000 TLD

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Number of string inputs
Number of MPP trackers
DC disconnect
Reverse polarity protection
DC short circuit current
Ground fault monitoring
AC Output
Rated power (@ cos phi = 1)
Rated current
Max. apparent power
Max. AC current
Power feed starts at
Mains output voltage
Feed in phases / connection phases
Max. permitted grid impedance [Zmax] (EN 61000-3-11)
Standby consumption
Mains frequency
Short circuit resistance
Power factor (cos phi)
Ground fault monitoring
Interfaces
DC connection
AC connection
Interfaces
Alarm relay
Appliance data
Maximum efficiency
European efficiency
Weight
Dimensions
Operating temperature
Storage temperature
Relative humidity (non-condensing)
Altitude at rated power
Protection degree (except digital interface)
Protection class / overvoltage category
Display
Data logger
System topology
Cooling
Standards / grid codes
Warranty
Type designation


Subject to alterations.

7000 R3	9000 R3	11000 R3
6,700 Wp	9,000 Wp	11,200 Wp
6,100 W	8,200 W	10,200 W
350 V ... 720 V		
900 V		
2 x 10 A	2 x 13 A	2 x 16 A
2 + 2		
1		
yes		
yes		
14 A	18 A	22 A
isolation control		
6,000 W	8,000 W	10,000 W
8.7 A	11.6 A	14.5 A
6,000 VA	8,000 VA	10,000 VA
11.2 A	14.8 A	18.5 A
20 W		
3AC 230 V / 400 V + N (+/-20 %)		
3 feed in phases / 3 connection phases		
n/a		
< 2 W		
50 Hz (+/- 5 %)		
yes		
0.7 ind. ... 0.7 cap.		
RCD		
Multicontact MC4		
spring clamp connectors		
PLATINUM® network EIA 485, 2 x RJ45 and screw terminals		
-		
98.4 %	98.4 %	98.4 %
97.7 %	97.8 %	97.9 %
45 kg		
H 626 x W 547 x D 290 mm		
-20 °C ... +60 °C		
-25 °C ... +80 °C		
0 % ... 95 %		
2,000 m / 6,560 ft		
IP 65 according to DIN EN 60529 (incl. digital interfaces)		
I / III		
graphic LCD 170 x 76 pixels		
storage capacity sufficient for 30 years operating time		
transformerless, DIVE®, RAC-MPP® technology		
convection cooling		
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		
10 years		
7000 R3-MDX	9000 R3-MDX	11000 R3-MDX

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14000 R3	16000 R3
14,600 Wp	16,900 Wp
13,300 W	15,350 W
350 V ... 720 V	
900 V	
2 x 21 A	2 x 24 A
2 + 2	
1	
yes	
yes	
29 A	33 A
isolation control	
13,000 W	15,000 W
18.9 A	22.0 A
13,000 VA	15,000 VA
22.0 A	22.0 A
20 W	
3AC 230 V / 400 V + N (+/-20 %)	
3 feed in phases / 3 connection phases	
402 mΩ	345 mΩ
< 2 W	
50 Hz (+/- 5 %)	
yes	
0.7 ind. ... 0.7 cap.	
RCD	
Multicontact MC4	
spring clamp connectors	
PLATINUM® network EIA 485, 2 x RJ45 and screw terminals	
-	
98.4 %	98.4 %
98.0 %	98.0 %
45 kg	
H 626 x W 547 x D 290 mm	
-20 °C ... +60 °C	
-25 °C ... +80 °C	
0 % ... 95 %	
2,000 m / 6,560 ft	
IP 65 according to DIN EN 60529 (incl. digital interfaces)	
I / III	
graphic LCD 170 x 76 pixels	
storage capacity sufficient for 30 years operating time	
transformerless, DIVE®, RAC-MPP® technology	
convection cooling	
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	
10 years	
14000 R3-MDX	16000 R3-MDX

Subject to alterations.
As at 30 April 2012




S inverters

Maximum reliability. Even under difficult conditions.




H inverters

Setting standards for insulated string inverters.




TL inverters

High performance without compromise: up to 98 % efficiency.




TL inverters

An impressive 98 % efficiency.



R3M inverters

Giving you a cool 98.4 %.



TL3 inverters

Scores with maximum performance – three-phase from 11 to 20 kW.

Specifications
Inverter
DC Input
Max. PV power
Max. DC power (@ cos phi = 1)
MPPT voltage range
Max. input voltage
Max. MPPT input current
Number of string inputs
Number of MPP trackers
DC disconnect
Reverse polarity protection
DC short circuit current
Ground fault monitoring
AC Output
Rated power (@ cos phi = 1)
Rated current
Max. apparent power
Max. AC current
Power feed starts at
Mains output voltage
Feed in phases / connection phases
Max. permitted grid impedance [Zmax] (EN 61000-3-11)
Standby consumption
Mains frequency
Short circuit resistance
Power factor (cos phi)
Ground fault monitoring
Interfaces
DC connection
AC connection
Interfaces
Alarm relay
Appliance data
Maximum efficiency
European efficiency
Weight
Dimensions
Operating temperature
Storage temperature
Relative humidity (non-condensing)
Altitude at rated power
Protection degree (except digital interface)
Protection class / overvoltage category
Display
Data logger
System topology
Cooling
Standards / grid codes
Warranty
Type designation







Subject to alterations.

11000 TL3	13000 TL3
11,000 Wp	13,600 Wp
10,300 W	12,800 W
380 V ... 850 V	420 V ... 850 V
1000 V	
29.0 A	30.0 A
4	
1	
integrated in the device	
yes	
50 A	
isolation control	
10,000 W	12,400 W
14.5 A	18.0 A
10,000 VA	12,400 VA
18.0 A	18.0 A
20 W	
3AC 400 V + N (+/-20 %)	
3 feed in phases / 3 connection phases	
n/a	422 mΩ
< 2.5 W	
50 Hz / 60 Hz (+/-5 %)	
yes	
0.9 ind. ... 0.9 cap.	
RCD	
Multicontact MC4	
Phoenix plug connector (supplied)	
PLATINUM® network EIA 485, 2 x RJ45 and screw terminals	
max. 24 V _{AC} / 2 A, screw terminals	
98.0 %	98.0 %
97.4 %	97.5 %
39 kg	39 kg
H 626 x W 543 x D 281 mm	
-25 °C ... +55 °C	
-20 °C ... +70 °C	
0 % ... 93 %	
2,000 m / 6,560 ft	
IP 65 according to DIN EN 60529	
I / III	
graphic LCD 170 x 76 pixels	
storage capacity sufficient for 30 years operating time	
transformerless, 3-phase high-performance topology	
convection cooling	
VDE 0126-1-1, VDE AR-N 4105, BDEW-2008, CEI 0-21, C10/11, G59/2, EN 50438, ÖNORM E8001-4-712, UTE C 15-712-1, RD 1663/661, IEC 62109, AS 4777.	
5 years	
11000 TL3	13000 TL3

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.

17000 TL3	20000 TL3
18,100 Wp	21,200 Wp
16,900 W	19,650 W
445 V ... 850 V	480 V ... 850 V
1000 V	
38.5 A	41.0 A
6	
1	
integrated in the device	
yes	
50 A	
isolation control	
16,500 W	19,200 W
23.9 A	27.8 A
16,500 VA	19,200 VA
29.0 A	29.0 A
20 W	
3AC 400 V + N (+/-20 %)	
3 feed in phases / 3 connection phases	
318 mΩ	273 mΩ
< 2.5 W	
50 Hz / 60 Hz (+/-5 %)	
yes	
0.9 ind. ... 0.9 cap.	
RCD	
Multicontact MC4	
Phoenix plug connector (supplied)	
PLATINUM® network EIA 485, 2 x RJ45 and screw terminals	
max. 24 V _{AC} / 2 A, screw terminals	
98.2 %	98.2 %
97.8 %	97.8 %
40 kg	40 kg
H 626 x W 543 x D 281 mm	
-25 °C ... +55 °C	
-20 °C ... +70 °C	
0 % ... 93 %	
2,000 m / 6,560 ft	
IP 65 according to DIN EN 60529	
I / III	
graphic LCD 170 x 76 pixels	
storage capacity sufficient for 30 years operating time	
transformerless, 3-phase high-performance topology	
convection cooling	
VDE 0126-1-1, VDE AR-N 4105, BDEW-2008, CEI 0-21, C10/11, G59/2, EN 50438, ÖNORM E8001-4-712, UTE C15-712-1, RD 1663/661, IEC 62109, AS 4777.	
5 years	
17000 TL3	20000 TL3

Subject to alterations.
As at 30 April 2012

	S inverters Maximum reliability. Even under difficult conditions.
	H inverters Setting standards for insulated string inverters.
	TL inverters High performance without compromise: up to 98 % efficiency.
	TL inverters An impressive 98 % efficiency.
	R3M inverters Giving you a cool 98.4 %.
	TL3 inverters Scores with maximum performance – three-phase from 11 to 20 kW.

Specifications
Inverter
DC Input
Max. PV power
Max. DC power (@ cos phi = 1)
MPPT voltage range
Max. input voltage
Max. MPPT input current
Number of string inputs
Number of MPP trackers
DC disconnect
Reverse polarity protection
DC short circuit current
Ground fault monitoring
AC Output
Rated power (@ cos phi = 1)
Rated current
Max. apparent power
Max. AC current
Power feed starts at
Mains output voltage
Feed in phases / connection phases
Max. permitted grid impedance Z_{max} (EN 61000-3-11)
Standby consumption
Mains frequency
Short circuit resistance
Power factor (cos phi)
Ground fault monitoring
Interfaces
DC connection
AC connection
Interfaces
Alarm relay
Appliance data
Maximum efficiency
European efficiency
Weight
Dimensions
Operating temperature
Storage temperature
Relative humidity (non-condensing)
Altitude at rated power
Protection degree (except digital interface)
Protection class / overvoltage category
Display
Data logger
System topology
Cooling
Standards / grid codes
Warranty
Type designation

Subject to alterations.

100 CS
130 kWp
115.8 kW
405 V ... 750 V
900 V
260 A
4
1
yes
yes
260 A
isolation control
100 kW
144 A
110 kVA
161 A
600 W
3AC 400 V (+10 %/-15 %)
3 feed in phases / 3 connection phases
52 mΩ
< 3 W
50 Hz (+2/-4 %)
yes
0.9 ind. ... 0.9 cap.
RCD
screw terminals
screw terminals
PLATINUM® network EIA 485, 2 x RJ45 and screw terminals
max. 24 V _{AC} / 2 A, screw terminals
96.8 %
95.7 %
1,162 kg
H 1800 x W 1000 x D 800 mm
-10 °C ... +65 °C
-10 °C ... +65 °C
0 % ... 95 %
2,000 m / 6,560 ft
IP 20 according to DIN EN 60529
I / III
graphic LCD 170 x 76 pixels
storage capacity sufficient for 30 years operating time
LF transformer
fan
VDE 0126-1-1, EN 50438, RD 663/2007, EN 50178
5 years
100 CS

Subject to alterations. As at 30 April 2012.

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Delivers excellent values for environmental management too. Production, packaging and return of PLATINUM® products.

For any company that develops technology promoting the sustainable use of resources, responsible practices are an essential part of the corporate culture. Diehl Controls is properly certified and the PLATINUM® brand fulfils all the key environmental directives. The photovoltaics area uses an environmental management system and is certified to ISO 14001.

PLATINUM® fulfils the key environmental directives:

RoHS directive:

Our products comply with the RoHS directive. This means that they do not contain hazardous substances such as lead or mercury.

Regulation on packaging:

To ensure that the packaging we use for our products can also be disposed of in an environmentally friendly manner and recycled, we take part in the dual waste disposal system and comply with the requirements of the regulation on packaging.

Return of used electrical and electronic goods:

To ensure that returned products are disposed of in an environmentally friendly manner, we are registered in accordance with the Waste Electrical and Electronic Equipment Directive (WEEE) under the registration number DE 46602949.



Diehl AKO Stiftung & Co. KG

Pfannerstraße 75

88239 Wangen im Allgäu, Germany

Tel: +49 7522 73-700

Fax: +49 7522 73-710

platinum@diehl-controls.com