

Maximises performance and gets everything across: our technology.

The PLATINUM® range of inverters.

High efficiency, comprehensive data information, ease of handling: alongside their superior quality, PLATINUM® inverters deliver everything that counts in the world of photovoltaics. With an efficiency of 98.4%, they are among the most efficient in the entire industry. They provide users with an extensive array of information. The display on the device shows up-to-the-minute current and voltage data for the AC and DC side, as well as the yield values for the day, week, month and year. All this is available 24 hours a day, with enough storage capacity for 30 years' worth of data via the integrated datalogger. Connection couldn't be easier thanks to our quick and easy installation and commissioning. The entire PLATINUM® range are multi-country devices, and can thus be configured as such.

The PLATINUM® product range includes string inverters in the output class from 2 to 22 kW. We also offer inverters with single and three-phase feed-in, with or without a transformer. With devices in the protection classes IP 65 and IP 66 and the PowerBlock system, the PLATINUM® range also covers outdoor applications. Whether for a single-family detached house, a commercial roof-mounted system or open-field installations – PLATINUM® offers the right device for every requirement.



Maximum reliability. Even under difficult conditions. The PLATINUM® S inverter.



Based on the circuit principle of 'galvanic isolation', PLATINUM® S inverters offer maximum levels of safety and reliability combined with a high degree of efficiency in the class of transformer inverters. Even under extreme or heavily fluctuating ambient conditions, these units are temperature-resistant and operate reliably. Installation is made quick and easy by the DC and AC connectors. All of the key operating data can be clearly read from the graphics display – even at night. The range contains eight models with a maximum output ranging from 2.1 to 4.6 kW. Two string inputs are provided for units with an output of 3.8 kW or higher.

Important note: In order to comply with legal requirements, this model is no longer approved for the German market.

- Low-frequency transformer: suitable for thin film modules
- RAC-MPP® technology for rapid MPP location
- Optimised data transfer and networking with other PLATINUM® inverters and monitoring devices via the PLATINUM® network EIA 485
- Convection cooling
- Extremely wide range of input voltages
- Integrated datalogger provides storage capacity for 30 years worth of operating data
- 10-year free manufacturer's warranty

Intelligent power bundling for outdoor applications.

The PLATINUM® PowerBlock.



Specially developed for extreme outdoor weather conditions, the PLATINUM® PowerBlock system is a genuine alternative to central inverters. The compact, robust housing enables installation of up to six inverters, thereby offering optimum protection against rain, hail, sunshine etc.

Specifications				
S Inverter	2100 S	2800 S	3100 S	3800 S
DC Input				
Max. PV power	2,300 Wp	3,200 Wp	3,450 Wp	4,200 Wp
Max. DC power (® cos phi = 1)	2,100 W	2,800 W	3,100 W	3,800 W
MPPT voltage range	206 V ... 390 V	313 V ... 630 V	314 V ... 630 V	315 V ... 630 V
Max. input voltage	480 V	780 V	780 V	780 V
Max. MPPT input current	9.0 A	9.0 A	9.0 A	12.0 A
Number of string inputs	1	1	1	2
Number of MPP trackers	1			
DC disconnect	optional, device integrated			
Reverse polarity protection	yes			
DC short circuit current	13 A	13 A	13 A	17 A
Ground fault monitoring	isolation control (can be activated)			
AC Output				
Rated power (® cos phi = 1)	1,750 W	2,400 W	2,550 W	3,300 W
Rated current	7.6 A	10.4 A	11.1 A	14.3 A
Max. apparent power	1,900 VA	2,600 VA	2,800 VA	3,600 VA
Max. AC current	8.3 A	11.3 A	12.2 A	15.7 A
Power feed starts at	13 W	14 W	14 W	18 W
Mains output voltage	230 V (+/-20 %)			
Feed in phases / connection phases	1 feed in phase / 1 or 3 connection phases			
Max. permitted grid impedance (Z_{max}) (EN 61000-3-11)	n/a			
Standby consumption	<2.5 W			
Mains frequency	50 Hz (+/-5 %)			
Short circuit resistance	yes			
Power factor (cos phi)	1			
Ground fault monitoring	-			
Interfaces				
DC connection	Multicontact MC4			
AC connection	Wieland RST 3i / 5i			
Interfaces	PLATINUM® network EIA 485, 2 x RJ45 and screw terminals			
Alarm relay	max. 24 V _{ac} / 2 A, screw terminals			
Appliance data				
Maximum efficiency	94.7 %	95.3 %	95.3 %	95.6 %
European efficiency	93.7 %	94.4 %	94.4 %	94.6 %
Weight	30 kg	35 kg	35 kg	42 kg
Dimensions	H 720 x W 320 x D 250 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 (except digital interface)	IP 54 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	LF transformer, RAC-MPP® technology			
Cooling	convection cooling	fan		
Standards / grid codes	VDE 0126-1-1, C10/11, G83/1, G59/2, EN 50438, EN 50178, ÖNORM E8001-4-712, UTE C15-712-1, RD 1683, AS 4777, AS 3100			
Warranty	10 years			
Type designation	2100 S	2800 S	3100 S	3800 S

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

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

Subject to alterations. More than 46 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 2023). Due to legal guidelines, this model is no longer approved for the German market.

Specifications				
S Inverter	4300 S	4301 S	4600 S	4601 S
DC Input				
Max. PV power	4,800 Wp	4,800 Wp	5,100 Wp	5,100 Wp
Max. DC power (@ cos phi = 1)	4,300 W	4,300 W	4,600 W	4,600 W
MPPT voltage range	320 V ... 630 V	277 V ... 470 V	320 V ... 630 V	278 V ... 470 V
Max. input voltage	780 V	580 V	780 V	580 V
Max. MPPT input current	12.5 A	15.0 A	13.0 A	16.0 A
Number of string inputs	2	2	2	2
Number of MPP trackers	1			
DC disconnect	optional, device integrated			
Reverse polarity protection	yes			
DC short circuit current	18 A	21 A	18 A	22 A
Ground fault monitoring	isolation control (can be activated)			
AC Output				
Rated power (@ cos phi = 1)	3,680 W	3,680 W	3,800 W	3,800 W
Rated current	16.0 A	16.0 A	16.5 A	16.5 A
Max. apparent power	4,050 VA	4,050 VA	4,200 VA	4,200 VA
Max. AC current	17.6 A	17.6 A	18.3 A	18.3 A
Power feed starts at	18 W	17 W	18 W	17 W
Mains output voltage	230 V (+/-20 %)			
Feed in phases / connection phases	1 feed in phase / 1 or 3 connection phases			
Max. permitted grid impedance (Z_{grid}) (EN 61000-3-11)	n/a		460 mΩ	460 mΩ
Standby consumption	<2.5 W			
Mains frequency	50 Hz (+/-5 %)			
Short circuit resistance	yes			
Power factor (cos phi)	1			
Ground fault monitoring	-			
Interfaces				
DC connection	Multicontact MC4			
AC connection	Wieland RST 3i / 5i			
Interfaces	PLATINUM® network EIA 485, 2 x RJ45 and screw terminals			
Alarm relay	max. 24 V _{AC} / 2 A, screw terminals			
Appliance data				
Maximum efficiency	95.6 %	94.6 %	95.6 %	94.6 %
European efficiency	94.7 %	93.9 %	94.8 %	93.8 %
Weight	42 kg	43 kg	42 kg	43 kg
Dimensions	H 720 x W 320 x D 250 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 (except digital interface)	IP 54 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	LF transformer, RAC-MPP® technology			
Cooling	fan			
Standards / grid codes	VDE 0126-1-1, C10/11, G83/1, G59/2, EN 50438, EN 50178, ÖNORM E8001-4-712, UTE C15-712-1, RD 1683, AS 4777, AS 3100			
Warranty	10 years			
Type designation	4300 S	4301 S	4600 S	4601 S

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Setting the standard for isolated string inverters. The PLATINUM® H inverter.

The PLATINUM® H inverter offers safety, user-friendliness and the highest degree of efficiency in the isolated inverter market. Thanks to the low weight of these units and the fact that all settings can be adjusted directly on the inverter, installation is made a lot easier and requires no additional software tools. Excellent information is provided by the graphics display and the integrated web server, which allows the unit to be monitored from a PC in real-time. The PLATINUM® H series includes four models ranging from 2.1 to 4.6 kW and is suitable for all module types.

- Efficiency of up to 97.3 %
- Convection cooling
- Weight: 19 – 21 kg
- Integrated web server
- Graphics display
- 10-year free manufacturer's warranty



The new PLATINUM® H series satisfies the "Energy Management (s6 EEG)" market requirement specification and the "Low-voltage Directive VDE AR-N-4105".

Specifications					
H Inverter	2100 H	3000 H	4000 H	4600 H	
DC Input					
Max. PV power	2,350 Wp	3,450 Wp	4,450 Wp	5,150 Wp	
Max. DC power (@ cos phi = 1)	2,100 W	3,000 W	4,000 W	4,600 W	
MPPT voltage range					
Max. input voltage	230 V ... 480 V				
Max. MPPT input current	9.5 A	13.5 A	18.0 A	21.0 A	
Number of string inputs	3				
Number of MPP trackers	1				
DC disconnect	optional, device integrated				
Reverse polarity protection	yes				
DC short circuit current	14.2 A	20.2 A	27 A	31.5 A	
Ground fault monitoring					
isolation control					
AC Output					
Rated power (@ cos phi = 1)	2,000 W	2,900 W	3,800 W	4,400 W	
Rated current	9.0 A	13.0 A	17.0 A (16.0 A*)	20.0 A (16.0 A*)	
Max. apparent power	2,000 VA	2,900 VA	3,800 VA	4,400 VA	
Max. AC current	10.5 A	15.2 A	19.7 A	23.0 A	
Power feed starts at	7 W				
Mains output voltage	230 V (+/-20 %)				
Feed in phases / connection phases	1 feed in phase / 1 connection phase				
Max. permitted grid impedance [Zmax] (EN 61000-3-11)	n/a	446 mΩ			
Standby consumption	< 1 W				
Mains frequency	50 Hz (+/-10 %)				
Short circuit resistance	yes				
Power factor (cos phi)	0.9 ind. ... 0.9 cap.				
Ground fault monitoring					
-					
Interfaces					
DC connection	Multicontact MC4				
AC connection	screw terminals				
Interfaces	Ethernet / CAN				
Alarm relay	-				
Appliance data					
Maximum efficiency	96.9 %	97.0 %	97.2 %	97.3 %	
European efficiency	96.0 %	96.2 %	96.6 %	96.9 %	
Weight	19 kg	19 kg	21 kg	21 kg	
Dimensions	H 610 x W 353 x D 154 mm				
Operating temperature	-25 °C ... +65 °C				
Storage temperature	-30 °C ... +80 °C				
Relative humidity (non-condensing)	4 % ... 99 %				
Altitude at rated power	2,000 m / 6,560 ft				
Protection degree	IP 65 according to DIN EN 60529				
Protection class / overvoltage category					
I / III					
Display	graphic color LCD, three LEDs for visual status indication				
Data logger	storage capacity sufficient for 20 years operating time / integrated webserver				
System topology	HF transformer with galvanic isolation				
Cooling	convection cooling				
Standards / grid codes	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				
Warranty	10 years				
Type designation					
	2100 H	3000 H	4000 H	4600 H	

400k VA and Domestic Adjustable current limit of 16 A.

Standard warranty 10 years, 12 years for 400k VA and Domestic Adjustable current limit of 16 A.

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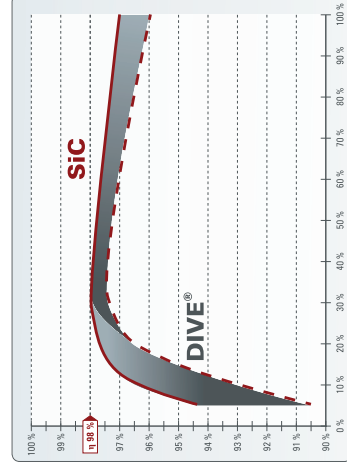
*UK and Denmark: Adjustable current limit of 16 A.
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Delivering high performance without compromise: efficiency rates of up to 98 %. The single-phase PLATINUM® TL inverter.



- The increased efficiency specifically in the lower power output range resulting from the combination of state-of-the-art SiC components and the innovative DIVE® technology is the key factor that contributes to the peak efficiency of 98%. As it has been designed and built to meet the requirements of protection class IP 66, the TL series is exceptionally well suited to outdoor installation. One particular advantage in use is the ease with which these units can be connected up via the PLATINUM® network EIA 485. Thanks to the automatic master programming employed in this system, all of the device settings are transmitted to all connected inverters. All of the key operating data can be clearly read from the graphics display – even at night. The TL series covers seven single-phase models ranging from 3.8 to 7.2 kW.
- Efficiency of 98 %
 - Integrated phase balancing function
 - Integrated datalogger provides storage capacity for 30 years worth of operating data
 - Exceptionally wide DC input voltage range
 - DIVE® technology for increased efficiency in the lower power output range
 - RAC-MPP® technology for rapid MPP location
 - 10-year free manufacturer's warranty

Maximised efficiency thanks to SiC and DIVE® technology.



Intelligent power bundling for outdoor applications.

The PLATINUM® PowerBlock.



Specially developed for extreme outdoor weather conditions, the PLATINUM® PowerBlock system is a genuine alternative to central inverters. The compact, robust housing enables installation of up to six inverters, thereby offering optimum protection against rain, hail, sunshine etc.

All PLATINUM® TL 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.

Specifications				
TL Inverter	3801 TLD	3800 TLD	4300 TLD	4800 TLD
DC Input				
Max. PV power	4,000 Wp	4,300 Wp	4,900 Wp	5,400 Wp
Max. DC power (at cos phi = 1)	3,480 W	3,800 W	4,300 W	4,800 W
MPPPT voltage range	349 V ... 710 V	350 V ... 710 V	351 V ... 710 V	348 V ... 710 V
Max. input voltage	880 V			
Max. MPPT input current	10.5 A	11.5 A	13.0 A	14.5 A
Number of string inputs	2	2	2	2
Number of MPP trackers	1			
DC disconnect	optional, device integrated			
Reverse polarity protection	yes			
DC short circuit current	15 A	16 A	18 A	20 A
Ground fault monitoring	isolation control			
AC Output				
Rated power (at cos phi = 1)	3,330 W	3,680 W	4,120 W	4,600 W
Rated current	14.5 A	16.0 A	17.9 A	20.0 A
Max. apparent power	3,330 VA	3,680 VA	4,120 VA	4,600 VA
Max. AC current	14.5 A	16.0 A	17.9 A	20.0 A
Power feed starts at	7 W	7 W	7 W	7 W
Mains output voltage	230 V (+/-20 %)			
Feed in phases / connection phases	1 feed in phase / 1 or 3 connection phases			
Max. permitted grid impedance (Z_{max}) (EN 61000-3-11)	n/a		424 mΩ	379 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	max. 24 V _{ac} / 2 A, screw terminals			
Appliance data				
Maximum efficiency	97.7 %	97.7 %	97.7 %	97.7 %
European efficiency	97.4 %	97.4 %	97.4 %	97.4 %
Weight	27 kg	27 kg	27 kg	28 kg
Dimensions	H 720 x W 320 x D 250 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 (except digital interface)	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, ONORM E8001-4-712, UTE C15-712-1, RD 1663/661, IEC 62109, AS 4777, AS 3100			
Warranty	10 years			
Type designation	3801 TLD	3800 TLD	4300 TLD	4800 TLD

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Specifications				
TL Inverter	5300 TLD	6300 TLD	7200 TLD	
DC Input				
Max. PV power	6,000 Wp	7,100 Wp	8,000 Wp	
Max. DC power (at cos phi = 1)	5,300 W	6,300 W	7,200 W	
MPPPT voltage range	349 V ... 710 V	350 V ... 710 V	351 V ... 710 V	
Max. input voltage	880 V			
Max. MPPT input current	16.0 A	18.5 A	21.0 A	
Number of string inputs	2	3	3	
Number of MPP trackers	1			
DC disconnect	optional, device integrated			
Reverse polarity protection	yes			
DC short circuit current	22 A	26 A	29 A	
Ground fault monitoring	isolation control			
AC Output				
Rated power (at cos phi = 1)	5,000 W	6,000 W	6,900 W	
Rated current	21.7 A	26.1 A	30.0 A	
Max. apparent power	5,000 VA	6,000 VA	6,900 VA	
Max. AC current	21.7 A	26.1 A	30.0 A	
Power feed starts at	7 W	8 W	8 W	
Mains output voltage	230 V (+/-20 %)			
Feed in phases / connection phases	1 feed in phase / 1 or 3 connection phases			
Max. permitted grid impedance (Z_{max}) (EN 61000-3-11)	349 mΩ	290 mΩ	253 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	max. 24 V _{ac} / 2 A, screw terminals			
Appliance data				
Maximum efficiency	97.7 %	98.0 %	98.0 %	
European efficiency	97.4 %	97.5 %	97.5 %	
Weight	28 kg	29 kg	29 kg	
Dimensions	H 720 x W 320 x D 250 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 (except digital interface)	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	fan			
Standards / grid codes	VDE 0126-1-1, VDE AR-N 4105, BDEW-2008, CEI 0-21, C10/11, G83/1, G59/2, EN 50438, ONORM E8001-4-712, UTE C15-712-1, RD 1663/661, IEC 62109, AS 4777, AS 3100			
Warranty	10 years			
Type designation	5300 TLD	6300 TLD	7200 TLD	

Subject to alterations. More than 46 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).

Delivering an impressive efficiency of 98 %.

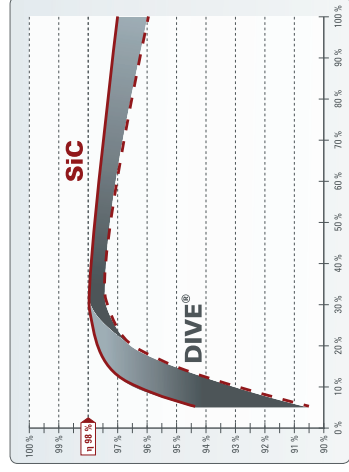
The three-phase PLATINUM® TL inverter.



The sibling of the single-phase TL inverter impresses with the same peak efficiency of 98%. This is largely down to the increase in efficiency particularly in the lower output range achieved by using of state-of-the-art SiC components in conjunction with the innovative DIVE® technology. The TL series is designed and constructed to meet the requirements of protection class IP 65 and is therefore, suitable for outdoor applications. One main advantage for users is the ease with which the system can be set into operation via the PLATINUM® network EIA 485: the inputs that are programmed at an inverter are transmitted to all networked devices. All of the key operating data can be clearly read from the graphics display – even at night. The range includes five three-phase models ranging from 13 to 22 kW.

- Efficiency of 98 %
- 3 independent MPP trackers
- Integrated datalogger provides storage capacity for 30 years worth of operating data
- Exceptionally wide DC input voltage range
- DIVE® technology for increased efficiency in the lower power output range
- RAC-MPP® technology for rapid MPP location
- 10-year free manufacturer's warranty

Maximised efficiency thanks to SiC and DIVE® technology.



Intelligent power bundling for outdoor applications.
The PLATINUM® PowerBlock.



Specially developed for extreme outdoor weather conditions, the PLATINUM® PowerBlock system is a genuine alternative to central inverters. The com-

pact and robust housing offers optimum protection against rain, hail, sunshine etc.

All PLATINUM® TL 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.

Specifications				
TL Inverter DC Input	13000 TL	16000 TL	19000 TL	
DC Input				
Max. PV power	14,700 Wp	18,000 Wp	21,300 Wp	
Max. DC power (at cos phi = 1)	12,900 W	15,900 W	18,900 W	
MPPT voltage range	351 V ... 710 V	349 V ... 710 V	350 V ... 710 V	
Max. input voltage		880 V		
Max. MPPT input current	3 x 13.0 A	3 x 16.0 A	3 x 18.5 A	
Number of string inputs	6	6	9	
Number of MPP trackers		3		
DC disconnect	optional, device integrated			
Reverse polarity protection	yes			
DC short circuit current	3 x 18 A	3 x 22 A	3 x 26 A	
Ground fault monitoring	isolation control			
AC Output				
Rated power (at cos phi = 1)	12,360 W	15,000 W	18,000 W	
Rated current	17.9 A	21.7 A	26.1 A	
Max. apparent power	12,360 VA	15,000 VA	18,000 VA	
Max. AC current	17.9 A	21.7 A	26.1 A	
Power feed starts at	21 W	21 W	24 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 (Z _{grid} (EN 61000-3-11))	424 mΩ	349 mΩ	290 mΩ	
Standby consumption	< 6 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	max. 24 V _{ac} / 2 A, screw terminals			
Appliance data				
Maximum efficiency	97.7 %	97.7 %	98.0 %	
European efficiency	97.4 %	97.4 %	97.5 %	
Weight	81 kg	84 kg	87 kg	
Dimensions	H 743 x W 972 x D 262 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 (except digital interface)	IP 65 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		fan	
Standards / grid codes	VDE 0126-1-1, VDE AR-N 4105, BDEW-2008, CEI 0-21, C10/11, G83/1, G59/2, EN 50438, ONORM E8001-4-712, UTE C15-712-1, RD 1663/661, IEC 62109, AS 4777, AS 3100			
Warranty	10 years			
Type designation	13000 TLD	16000 TLD	19000 TLD	

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Specifications				
TL Inverter DC Input	22001 TL	22000 TL	22000 TL	
Max. PV power				
	23,000 Wp		24,000 Wp	
Max. DC power (at cos phi = 1)				
	20,800 W		21,600 W	
MPPT voltage range				
	351 V ... 710 V		351 V ... 710 V	
Max. input voltage				
		880 V		
Max. MPPT input current				
	3 x 20.2 A		3 x 21.0 A	
Number of string inputs				
	9		9	
Number of MPP trackers				
		3		
DC disconnect				
		optional, device integrated		
Reverse polarity protection				
		yes		
DC short circuit current				
	3 x 28 A		3 x 29 A	
Ground fault monitoring				
		isolation control		
AC Output				
Rated power (at cos phi = 1)				
	20,000 W		20,700 W	
Rated current				
	29.0 A		30.0 A	
Max. apparent power				
	20,000 VA		20,700 VA	
Max. AC current				
	29.0 A		30.0 A	
Power feed starts at				
	24 W		24 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 (Z _{grid}) (EN 61000-3-11)				
	261 mΩ		253 mΩ	
Standby consumption				
		<6 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				
		max. 24 V _{ac} / 2 A, screw terminals		
Appliance data				
Maximum efficiency				
	98.0 %		98.0 %	
European efficiency				
	97.5 %		97.5 %	
Weight				
	87 kg		87 kg	
Dimensions				
		H 743 x W 972 x D 262 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 (except digital interface)				
		IP 65 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				
		fan		
Standards / grid codes				
		VDE 0126-1-1, VDE AR-N 4105, BDEW-2008, CEI 0-21, C10/11, G83/1, G59/2, EN 50438, ONORM E8001-4-712, UTE C15-712-1, RD 1663/661, IEC 62109, AS 4777, AS 3100		
Warranty				
		10 years		
Type designation	22001 TLD	22000 TLD	22000 TLD	

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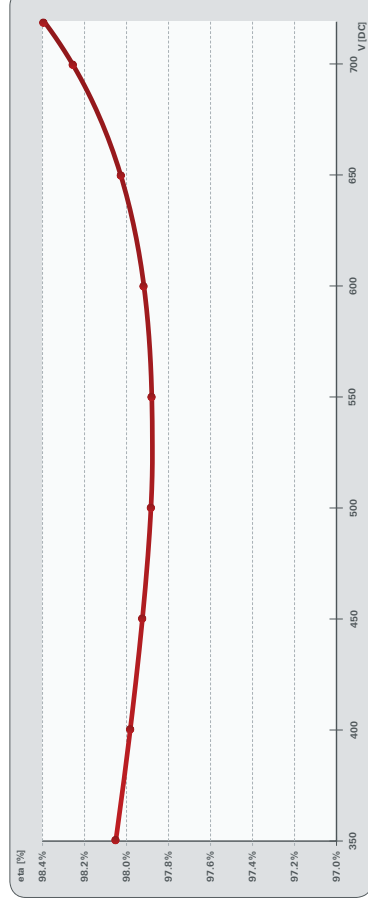
Subject to alterations. More than 46 countries are currently supported. An up-to-date type designation list can be found in the download area on our website under Certificates/Overview (as at May 2012).

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 MPPT 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

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.

All PLATINUM® R3 models are compliant with the "Energy Management (56 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.

Specifications				
R3 Inverter	7000 R3-MD	9000 R3	11000 R3	
DC Input				
Max. PV power	6,700 Wp	9,000 Wp	11,200 Wp	
Max. DC power (at 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	1 x 10 A	2 x 13 A	2 x 16 A	
Number of string inputs	1 + 1	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 (at 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 (Z _{grid}) (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, DVE®, 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, ONORM 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	

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Specifications				
R3 Inverter	14000 R3	16000 R3		
DC Input				
Max. PV power	14,600 Wp	16,900 Wp		
Max. DC power (at 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 (at 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 (Z _{grid}) (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, DVE®, 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, ONORM E8001-4-712, UTE C15-712-1, RD 1663/661, IEC 62109, AS 4777, AS 3100		
Warranty		10 years		
Type designation	14000 R3-MDX	16000 R3-MDX		

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An outstanding top performer – three-phase from 11 to 20 kW. The PLATINUM® TL3 inverter.

Thanks to the highly efficient circuit topology across a wide input voltage range, the PLATINUM® TL3 inverter can deliver efficiency of up to 98.2 %. The three-phase feed-in eliminates the risk of unbalance between phase loads. The PLATINUM® network and standardised connections ensure that networking of the multi-country-device could not be easier. As all programming is performed via the PLATINUM® network EIA 485, all of the adjustments made to device settings are automatically transmitted to all connected inverters. All of the key operating data can be clearly read from the graphics display – even at night. The range contains four models from 11 to 20 kW.

- Efficiency up to 98.2 %
- Integrated datalogger provides storage capacity for 30 years worth of operating data
- Convection cooling
- Weight: 40 kg
- Protection class IP 65



Multi-country



Datalogger



Graphics display



Outdoor IP 65



Three-phase



98.2 % Efficiency



10 – 100 kW



> 100 kW

All PLATINUM® TL3 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.

Specifications					
TL3 Inverter		11000 TL3	13000 TL3	17000 TL3	20000 TL3
DC Input					
Max. PV power		11,000 Wp	13,600 Wp	18,100 Wp	21,200 Wp
Max. DC power (@ cos phi = 1)		10,300 W	12,800 W	16,900 W	19,650 W
MPPT voltage range		380 V ... 850 V	420 V ... 850 V	445 V ... 850 V	480 V ... 850 V
Max. input voltage		1000 V			
Max. MPPT input current		29.0 A	30.0 A	38.5 A	41.0 A
Number of string inputs		4			6
Number of MPP trackers		1			
DC disconnect		integrated in the device			
Reverse polarity protection		yes			
DC short circuit current		50 A			
Ground fault monitoring		isolation control			
AC Output					
Rated power (@ cos phi = 1)		10,000 W	12,400 W	16,500 W	19,200 W
Rated current		14.5 A	18.0 A	23.9 A	27.8 A
Max. apparent power		10,000 VA	12,400 VA	16,500 VA	19,200 VA
Max. AC current		18.0 A	18.0 A	29.0 A	29.0 A
Power feed starts at		20 W			
Mains output voltage		3AC 400 V + N (+/-20 %)			
Feed in phases / connection phases		3 feed in phases / 3 connection phases			
Max. permitted grid impedance (Z_{grid}) (EN 61000-3-11)		n/a	422 mΩ	318 mΩ	273 mΩ
Standby consumption		< 2.5 W			
Mains frequency		50 Hz / 60 Hz (+/-5 %)			
Short circuit resistance		yes			
Power factor cos phi		0.9 ind. ... 0.9 cap.			
Ground fault monitoring		RCD			
Interfaces					
DC connection		Multicontact MC4			
AC connection		Phoenix plug connector (supplied)			
Interfaces		PLATINUM® network EIA 485, 2 x RJ45 and screw terminals			
Alarm relay		max. 24 V _{ac} / 2 A, screw terminals			
Appliance data					
Maximum efficiency		98.0 %	98.0 %	98.2 %	98.2 %
European efficiency		97.4 %	97.5 %	97.8 %	97.8 %
Weight		39 kg	39 kg	40 kg	40 kg
Dimensions		H 626 x W 543 x D 281 mm			
Operating temperature		-25 °C ... +55 °C			
Storage temperature		-20 °C ... +70 °C			
Relative humidity (non-condensing)		0 % ... 93 %			
Altitude at rated power		2,000 m / 6,560 ft			
Protection degree (except digital interface)		IP 65 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, 3-phase high-performance topology			
Cooling		convection cooling			
Standards / grid codes		VDE 0126-1-1, VDE AR-N 4105, BDEW-2008, CEI 0-21, C10/11, G59/2, EN 50438, ONORM E8001-4-712, UTE C 15-712-1, RD 1663/661, IEC 62109, AS 4777.			
Warranty		5 years			
Type designation		11000 TL3	13000 TL3	17000 TL3	20000 TL3

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Subject to alterations. More than 46 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).

Delivering the best yield across Europe. The PLATINUM® range of inverters. Reference systems.

PLATINUM® inverters are in use across the whole of Europe, from the UK to Greece. Customers particularly value the outstanding performance, exceptional quality and ease of installation and commissioning of the multi-country devices. This list of international references

once again highlights the significance of inverter technology in terms of the efficiency of photovoltaic systems and therefore, for the long-term success of solar energy.

Revello, Piemont, Italy.
Eco-electricity and happy hens.

Care for the environment is reflected in two important projects in Revello, south of Turin: the open-field photovoltaic system built in 2011, which delivers a total output of 1,231 kWp, and an environmentally-friendly free-range livestock/poultry farm. PLATINUM® supplied 174 inverters (model: 7200 TL) for around 7,000 modules.

Equipment:

- 174 Diehl 7200 TL inverters
- 7,038 modules, each delivering 175 Wp



Impressive performance both in the north and south. The PLATINUM® range of inverters. **Reference systems.**

Piscina, Turin region, Italy.

Increased yield with multi-MPP tracking.

In the case of this plant near Turin, which was constructed in 2011, the problem of curved roofs with modules aligned in different directions was overcome by using string inverters and separate MPP-tracking for each row of modules. The yield of the plant was maximised with the aid of multi-MPP tracking and was increased

Equipment:

- 24 Diehl 7200 TL inverters
- 6 Diehl 6300 TL inverters
- 12 Diehl 4800 TL inverters
- 426 modules, each delivering 180 Wp
- 678 modules, each delivering 285 Wp



across the board by 10 – 15% compared to the original forecasts. The total output of the plant is 269 kWp.

Equipment:

- 11 Diehl 7200 TL inverters per park
- 4 Diehl 4300 TL inverters per park
- 20 single-axis solar trackers
- 454 modules, each delivering 220 Wp



Euaggelismos Messinias, Peloponnese, Greece.

200 kWp with 30 PLATINUM® inverters.

These two photovoltaic parks in Euaggelismos Messinias in Greece each deliver an output of 2 x 100 kWp from a surface area of 10,000 m². The plant has been designed to run for 20 years and was constructed over a period of two months. Last year, the feed-in power was 2,150 kWh per kWp. There were two reasons why PLATINUM® inverters were chosen for this project: high quality and excellent value for money.

Equipment:

- 11 Diehl 7200 TL inverters per park
- 4 Diehl 4300 TL inverters per park
- 20 single-axis solar trackers
- 454 modules, each delivering 220 Wp



Littlehampton, West Sussex, south England.

The biggest rooftop solar power plant in the British Isles.

Britain's largest rooftop solar power plant with a total area of 6,355 m² and an output of 883 kWp was planned and installed in just three months in 2011. The electricity produced here is to be used in a self-sustaining system in order to reduce the energy costs of its operating company. In addition, this also helps to save 390 tons of CO₂ emissions every year. The plant can supply electricity to 200 households per year.

Equipment:

- 40 Diehl 22000 TL inverters
- 3,800 modules, each delivering 230 Wp



Podnanos, Vipava, Slovenia.

Decentralised solution with PLATINUM® string inverters.

With a power output of 950 kWp, the plant in Podnanos is one of the largest photovoltaic installations in Slovenia. In this plant, a decentralised solution is implemented solely with PLATINUM® string inverters. These deliver a higher yield than centralised inverters and suffer fewer

failures. With the aid of the 135 MPP trackers of the 44 PLATINUM® 22000 TL inverters, it is possible to compensate for terrain-related differences in angle between the modules via multi-MPP tracking and thus to significantly increase the yield.

Equipment:

- 44 Diehl 22000 TL inverters
- 3,168 modules, each delivering 300 Wp



Warin, Mecklenburg-West Pomerania, Germany.

Flexible deployment of 115 PLATINUM® inverters on a total of ten roofs.

This installation, which is distributed over many roofs, presented a special challenge: thanks to the wide performance spectrum of the units in the PLATINUM® range, it was possible to equip eight large halls, one smaller hall and one office building – each with an apex roof pitched at 14° – with the best models to deliver the optimum power output. A total of 115 transformerless

PLATINUM® inverters deliver high yield values, while four PLATINUM® WebMaster units are used for comprehensive monitoring. Constructed in 2010, the solar plant delivers an output of 904 kWp.

Equipment:

- 104 Diehl 7200 TL inverters
- 1 Diehl 6300 TL inverter
- 1 Diehl 4800 TL inverter
- 3 Diehl 4300 TL inverters
- 4,880 modules, each delivering 185 Wp

