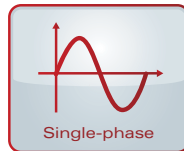
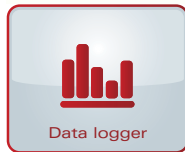


Uncompromisingly high performance:  
up to 98 % efficiency.  
The single-phase PLATINUM® TL inverter.



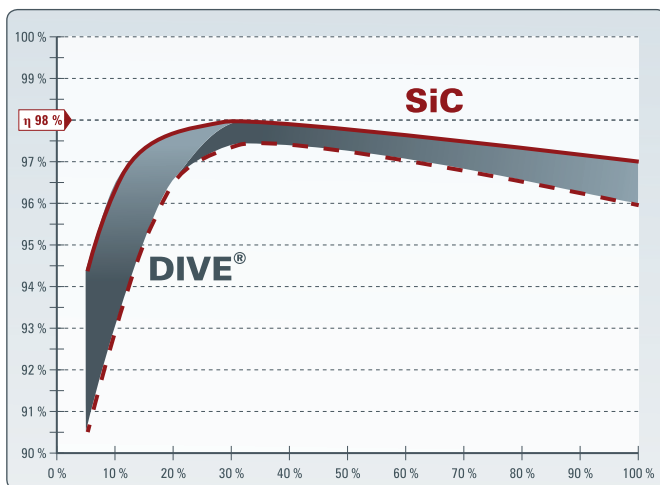
All PLATINUM® TL models are compliant with the “Energy Management (§6 EEG)” market requirement specification, the “Technical Guidelines for Power Generating Plants Connected to the Medium Voltage Grid” and the “Low-voltage Directive AR-N-4105” as of its coming into effect as the successor directive of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

**PLATINUM®**  
Next Energy Solution.

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 98.0 %. As it has been designed and built to meet the requirements of protection class IP 66, the single-phase 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 off from the graphics display – even at night. The TL series covers seven singlephase models ranging from 3.3 to 7 kW.

- Maximum efficiency 98.0 %
- 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 tracking
- Suitable for universal use thanks to multi-country configuration
- Free 10-year manufacturer's warranty

## Maximised efficiency thanks to SiC and DIVE® technology.



SiC (silicon carbide semiconductor technology)  
DIVE® (Dynamic Input Value Enhancement)

Specifications				
TL inverter	3801 TL	3800 TL	4300 TL	4800 TL
<b>DC Input</b>				
Max. PV power	4,000 Wp	4,300 Wp	4,900 Wp	5,400 Wp
Max. DC power (@ cos phi = 1)	3,480 W	3,800 W	4,300 W	4,800 W
MPPT voltage range	349 ... 710 V	350 ... 710 V	351 ... 710 V	348 ... 710 V
Max. input voltage	880 V			
Max. MPPT inout current	10.5 A	11.5 A	13 A	14.5 A
Number of string inputs	2			
Number of MPP trackers	1			
DC disconnecter	○			
DC short circuit current	15 A	16 A	18 A	20 A
Reverse polarity protection / Ground fault monitoring (isolation check))	● / ●			
<b>AC Output</b>				
Rated power (@ cos phi = 1)	3,330 W	3,680 W	4,120 W	4,600 W
Rated current	14.5 A	16 A	17.9 A	20 A
Max. apparent power	3,330 VA	3,680 VA	4,120 VA	4,600 VA
Max. AC current	14.5 A	16 A	17.9 A	20 A
Power feed starts at	7 W			
Mains output voltage	230 V (+/-20 %)			
Feed in phases / connection phases	1 / 1 or 3			
Max. permitted grid impedance  Z <sub>max</sub>   (EN 61000-3-11)	–		424 mΩ	379 mΩ
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	Screw clamp connectors			
RS 485 (Clamps / RJ45)	● / ●			
Ethernet / CAN	– / –			
Integrated web server	–			
Alarm relay	24 V <sub>AC</sub> / 2 A			
<b>Appliance data</b>				
Max. efficiency	97.7 %			
European efficiency	97.4 %			
Weight	27 kg		28 kg	
Dimensions (H x W x D in mm)	720 x 320 x 250			
Operating temperature	-25 ... +65 °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			Fan
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			
<b>Type designation</b>	<b>3801 TLD</b>	<b>3800 TLD</b>	<b>4300 TLD</b>	<b>4800 TLD</b>

\*UK and Denmark: 16 A variable current limiter  
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](http://www.platinum-nes.com)

● Standard    ○ Optional    – Not available

Specifications			
TL inverter	5300 TL	6300 TL	7200 TL
<b>DC Input</b>			
Max. PV power	6,000 Wp	7,100 Wp	8,000 Wp
Max. DC power (@ cos phi = 1)	5,300 W	6,300 W	7,200 W
MPPT voltage range	349 ... 710 V	350 ... 710 V	351 ... 710 V
Max. input voltage	880 V		
Max. MPPT inout current	16 A	18.5 A	21 A
Number of string inputs	2	3	
Number of MPP trackers	1		
DC disconnect	○		
DC short circuit current	22 A	26 A	29 A
Reverse polarity protection / Ground fault monitoring (isolation check)	● / ●		
<b>AC Output</b>			
Rated power (@ cos phi = 1)	5,000 W	6,000 W	6,900 W
Rated current	21.7 A	26.1 A	30 A
Max. apparent power	5,000 VA	6,000 VA	6,900 VA
Max. AC current	21.7 A	26.1 A	30 A
Power feed starts at	7 W	8 W	
Mains output voltage	230 V (+/-20 %)		
Feed in phases / connection phases	1 / 1 or 3		
Max. permitted grid impedance  Z <sub>max</sub>   (EN 61000-3-11)	349 mΩ	290 mΩ	253 mΩ
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	Screw clamp connectors		
RS 485 (Clamps / RJ45)	● / ●		
Ethernet / CAN	- / -		
Integrated web server	-		
Alarm relay	24 V <sub>AC</sub> / 2 A		
<b>Appliance data</b>			
Max. efficiency	97.7 %	97.9 %	98.0 %
European efficiency	97.4 %	97.5 %	97.5 %
Weight	28 kg	29 kg	
Dimensions (H x W x D in mm)	720 x 320 x 250		
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	Fan		
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		
<b>Type designation</b>	<b>5300 TLD</b>	<b>6300 TLD</b>	<b>7200 TLD</b>

\*UK and Denmark: 16 A variable current limiter  
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](http://www.platinum-nes.com)

● Standard    ○ Optional    - Not available

# 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.



Your sales partner:



PLATINUM GmbH  
Pfannerstraße 75  
88239 Wangen im Allgäu, Germany  
Tel: +49 7522 9738-0  
Fax: +49 7522 9738-100  
info@platinum-nes.com  
www.platinum-nes.com