

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



Warranty



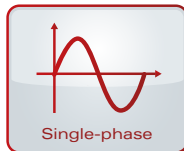
Data logger



Outdoor IP 66



Shading



Single-phase



98.0%
Efficiency



< 25 kW



10 - 100 kW

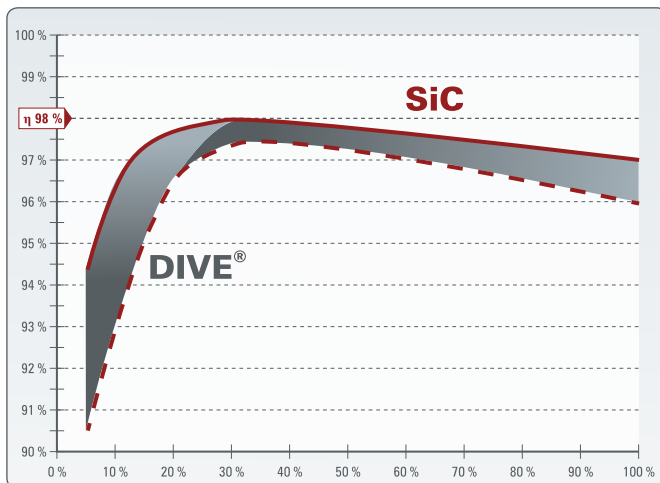
All PLATINUM® TL models are compliant with the "Energy Management (§6 EEG)" market requirement specification, the "Technical Guidelines for Power Generating Plants Connected to the Medium Voltage Grid" and the "Low-voltage Directive AR-N-4105" as of its coming into effect as the successor directive of 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	5300 TL
DC Input					
Max. PV power	4,000 W _p	4,300 W _p	4,900 W _p	5,400 W _p	6,000 W _p
Max. DC power	3,480 W	3,800 W	4,300 W	4,800 W	5,300 W
MPPT voltage range	349 ... 710 V	350 ... 710 V	351 ... 710 V	348 ... 710 V	349 ... 710 V
Max. input voltage	880 V				
Max. MPPT inout current	10.5 A	11.5 A	13 A	14.5 A	16 A
Number of string inputs	1				
Number of MPP trackers	1				
DC disconnect	○				
DC short circuit current	15 A	16 A	18 A	20 A	22 A
Reverse polarity protection / Ground fault monitoring (isolation check))	● / ●				
AC Output					
Rated power	3,330 W	3,680 W	4,120 W	4,600 W	5,000 W
Rated current	14.5 A	16 A	17.9 A	20 A	21.7 A
Max. apparent power	3,330 VA	3,680 VA	4,120 VA	4,600 VA	5,000 VA
Max. AC current	14.5 A	16 A	17.9 A	20 A	21.7 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 <small> Z_{max} (EN 61000-3-11)</small>	–		424 mΩ	379 mΩ	349 mΩ
Standby consumption	1 W				
Mains frequency	50 Hz (+/-5 %)				
Power factor <small>(cos phi) (ind ... kap)</small>	0,7 ... 0,7				
Short circuit resistance / Ground fault monitoring (RCD)	● / ●				
Interfaces					
DC connection	MC4				
AC connection	Screw clamp connectors				
RS 485 (Clamps / RJ45)	● / ●				
Ethernet / CAN	– / –				
Integrated web server	–				
Alarm relay	24 V _{AC} / 2 A				
Appliance data					
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	-20 ... +60 °C				
Storage temperature	-25 ... +80 °C				
Relative humidity	0 ... 95 %				
Altitude at rated power	2.000 m / 6.560 ft				
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			Fan	
Standards / grid codes	Overview at www.platinum-nes.com				
Warranty	10 years				
Type designation	3801 TLD	3800 TLD	4300 TLD	4800 TLD	5300 TLD

Subject to alterations. Valid as of 01/2014. More than 45 countries are currently supported. The current list is available from the download area of our homepage www.platinum-nes.com

● Standard ○ Optional – Not available

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.



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