

Delivering high performance without compromise: efficiency rates of up to 98 %.

The single-phase PLATINUM® TL inverter.



Warranty



Multi-country



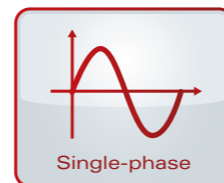
Datalogger



Outdoor IP 66



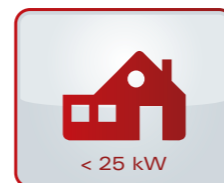
Shading



Single-phase



Efficiency



< 25 kW

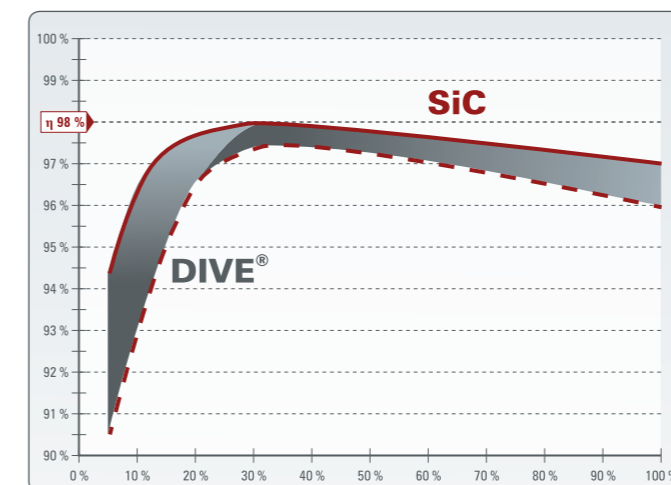


10 - 100 kW

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.



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



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-

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 TL	3800 TL	4300 TL	4800 TL
DC Input				
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 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 (@ 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, ÖNORM 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

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 May 2012).

Specifications			
TL Inverter	5300 TL	6300 TL	7200 TL
DC Input			
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 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 (@ 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, ÖNORM E8001-4-712, UTE C15-712-1, RD 1663/661, IEC 62109, AS 4777, AS 3100		
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