

# Replus™

3000TL2 - 4000TL2 - 5000TL2

New & Improved Design

Reactive Power Control

FREE Online Monitoring



ReneSola Replus string inverters take reliability, efficiency, and ease of installation to a whole new level



**MULTI MPPT TRACKER**  
Two MPPT Trackers to ensure to reach the maximum output power



**TRANSFORMERLESS DESIGN**  
High efficiency (Max. 97.6%, Euro. 97%)



**ROBUST DESIGN**  
IP 65 Suitable for indoor and outdoor installation

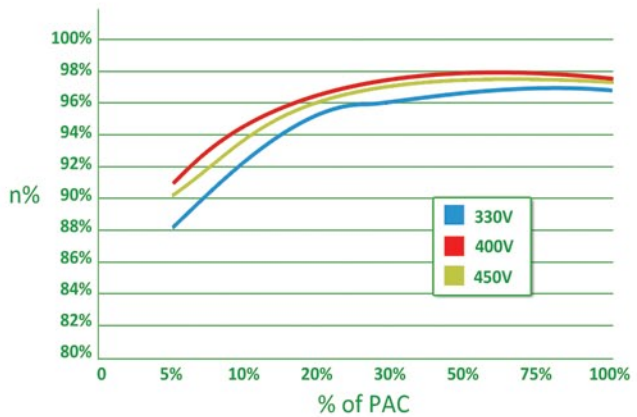


**WIDE DC INPUT RANGE (120-590 Vdc)**  
Compatible with different module technologies



**10 YEARS STANDARD WARRANTY**  
Optional 15 years warranty available

Efficiency Curve for Replus-4000TL2



**ReneSola**  
More Power for Your Dollar

# Replus™

## 3000TL2 - 4000TL2 - 5000TL2

Input (DC)	3000TL2	4000TL2	5000TL2
Max.PV-Generator Power	3400 W	4600 W	5200 W
Max. DC Voltage		590 V	
Rated Voltage		360 V	
MPPT DC Voltage Range		120 - 500 V	
Turn off DC Voltage		90 V	
Max. DC Current	12*2 A	16*2 A	18*2 A
Nominal DC Current	10*2 A	13*2 A	14*2 A
Number of DC Connection		2	
Max. Input Power, each MPPT	2000 W	2600 W	3000 W
DC-Connection		MC4	
Number of MPPT trackers		2	
Turn on Power		10 W	

Output (DC)	3000TL2	4000TL2	5000TL2
Max. AC Power	3300 VA	4400 VA	5000 VA
Norminal AC Power	3000 W	4000 W	4600 W
Max. AC Current	14.4 A	19.0 A	22.0 A
Norminal AC Current	13.0 A	17.4 A	20.0 A
Grid Voltage Range		185 V ... 276 V *	
Grid Frequency		50 Hz and 60 Hz	
Power Factor		0.95 capacitive...0.95 inductive	
THD(AC Output current)		<2%	
AC Connector		Plug-in connector	

\*Depending on regional settings

Efficiency	3000TL2	4000TL2	5000TL2
Max. Efficiency (at 360 VDC)	97.8%	97.8%	97.8%
Euro Efficiency (at 360 VDC)	97.1%	97.3%	97.3%
MPPT Efficiency		99.9%	

### Environmental Limits

IIP Protection Type	IP 65	IP 65 according to IEC 60529
Operating Temperature Range		-20°C to +60°C, up to 45°C without derating
Relative Humidity		0% to 98%, no condensation
Maximum Altitude (above sea level)		2000
Noise Level		< 40

### Safety and Protection

Internal Overvoltage Protection	Yes
DC Insulation Monitoring	Yes
Earth Fault Protection	Yes
Grid Monitoring	According to VDE 0126-1-1, VDE-AR-N 4105, RD1669, ENEL2010, C10/11, G83/1, AS4777
Earth Fault Current Monitoring	According to VDE 0126-1-1, VDE-AR-N 4105, RD1669, ENEL2010, C10/11, G83/1, AS4777
DC Current Monitoring	According to VDE 0126-1-1, VDE-AR-N 4105, RD1669, ENEL2010, C10/11, G83/1, AS4777
Islanding Protection	According to VDE 0126-1-1, VDE-AR-N 4105, RD 1663, G83/1, AS4777

### Normative Reference

CE - Compliant According to	EN 62109, EN 61000-6-1, EN 61000-6-3, EN 61000-6-2, EN 61000-6-4, EN61000-3-2, EN61000-3-3, EN61000-3-12, EN61000-3-11
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### General Data

Isolation Type	Transformerless
Cooling Concept	Convection
Housing	Iron housing, for inside and outdoor installation
Mounting Information	Wall bracket
LED Display	3
LCD Display	Backlight, 20x 4 Character LCD
Data Logger	RS485, USB, integrated (Wi-Fi or GPRS)
Data Communication Interfaces	RS485, USB, integrated (Wi-Fi or GPRS)
Computer Communication USB	USB
Standard Warranty	10 years (Optional 15 years)



FREE Online Monitoring System Included

The free ReplusWeb solution provides a long term and location-independent plant monitoring without an external data logger. Using plug&play, (that's all) the replus series is connected directly to any commercially available internet routers. This way, the PV system can be monitored at any time either on site or from any other location. All one has to do is to register the inverters and plants at [www.replusweb.renesola.com](http://www.replusweb.renesola.com)

### Dimensions and Weight

Dimensions (WxHxD)	352x421x162.5mm
Weight	16.5 Kg

### Power Consumption

Power Consumption at Night	< 1 W
Power Consumption at Standby	6 W



Rev No: JC/TDS/2014.10

\*Contact ReneSola for tolerance specification

### CAUTION:

All rights reserved Design and specification are subject to change without prior notice

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Contact Person:

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# ReneSola

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