

Replus-3000TL Replus-4000TL Replus-5000TL

ReneSola Replus serial inverters take reliability, efficiency, and ease of installation to a whole new level. Replus inverters are perfect for system integrators and end users who require high performance PV inverters for small and medium size solar PV project in industrial, commercial and residential applications. Replus inverters are available in sizes of 1.5 kW to 20 kW, and optimized for cost-efficiency in megawatt size power plants.



Transformerless design,
high efficiency (Max.97.6%, Euro.97%)



Multi MPPT Tracker



High Maximum Power Point Tracking (MPPT)
accuracy (>99.9%)



Wide DC input range (120-590Vdc),
compatible with different module technologies



Easy wiring, installation, and operation



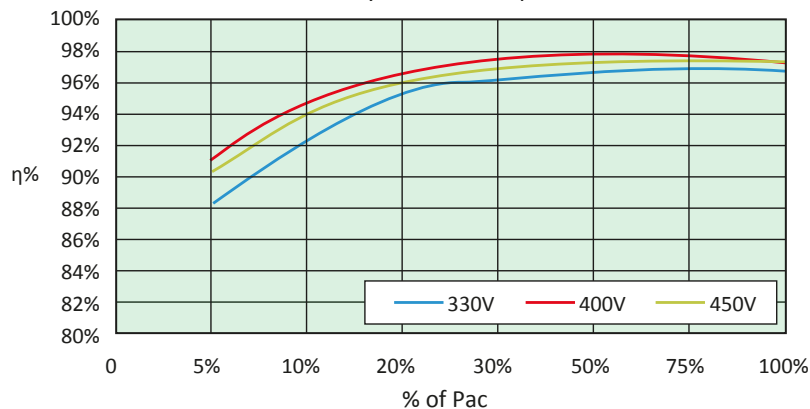
IP 65 design, suitable for indoor
and outdoor installation



5 years standard warranty
(Optional 10~25 years warranty available)



Efficiency Curve for Replus-4000TL



ENEL Guide RD1663 EN50438

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Input (DC)	Replus-3000TL	Replus-4000TL	Replus-5000TL
Max. PV-Generator Power [Wp]	3400	4500	5000
Max DC Voltage [V]		590	
MPPT DC Voltage Range [V]		120~500	
Turn off DC Voltage [V]		120	
Max. DC Current [A]		36	
Nominal DC Current [A]	28	33	33
Number of DC Connections		2	
DC-Connection		MC4	
Number of MPP trackers		2	
Turn on Power [W]		10	

Output (AC)	Replus-3000TL	Replus-4000TL	Replus-5000TL
Max. AC Power [W]	3300	4400	4800
Nominal AC Power [W]	3000	4000	4600
Max. AC Current [A]	14.4	19.0	21.0
Nominal AC Current [A]	13	17.4	20
Power Connection		Single phase	
Grid Voltage Range	According to VDE 0126-1-1, RD1663, ENEL2010, C10/11, G83/1, AS4777, EN50438		
Grid Frequency Range	According to VDE 0126-1-1, RD1663, ENEL2010, C10/11, G83/1, AS4777, EN50438		
Power Factor		0.99 (>30% of Full Load)	
Harmonic Distortion (THD) at Normal Output		<2%	
AC Connector		Plug-in connector	

Efficiency	Replus-3000TL	Replus-4000TL	Replus-5000TL
Max. Efficiency (at 360VDC)	97.5%	97.6%	97.6%
Euro Efficiency (at 360VDC)	96.6%	97.0%	97.0%
MPPT Efficiency		99.9%	

Power Consumption	Replus-3000TL	Replus-4000TL	Replus-5000TL
Own Consumption in Operation [W]	45	50	50
Power Consumption at Night [W]		0	
Power Consumption at Standby [W]		6	

Dimensions and Weight	Replus-3000TL	Replus-4000TL	Replus-5000TL
Dimensions (WxHxD)	367*526*163mm / 14.4*20.7*6.4 inch		
Weight	20kg/44.1lbs	21kg/46.3lbs	21kg/46.3lbs

Safety and Protection	
Internal Overvoltage Protection	Yes
DC Insulation Monitoring	Yes
Earth Fault Protection	Yes
Grid Monitoring	According to VDE 0126-1-1, RD1663, ENEL2010, C10/11, G83/1, AS4777, EN50438
Earth Fault Current Monitoring	According to VDE 0126-1-1, RD1663, ENEL2010, C10/11, G83/1, AS4777, EN50438
DC Current Monitoring	According to VDE 0126-1-1, RD1663, ENEL2010, C10/11, G83/1, AS4777, EN50438
Islanding Protection	According to VDE 0126-1-1, RD1663, G83/1, AS4777

Normative Reference	
CE- Compliant According to	EN62109, EN61000-6-1, EN61000-6-3, EN61000-6-2, EN61000-6-4 EN61000-3-2, EN61000-3-3, EN61000-3-12, EN61000-3-11

Environmental Limits	
IP Protection Type	IP 65 according to IEC 60529
Operating Temperature Range	-20°C to +60°C
Relative Humidity	0% to 98%, no condensation
Maximum Altitude (above sea level) [m]	2000
Noise Level [dBA]	<40

General Data	
Isolation Type	Transformerless
Cooling Concept	Natural Convection
Housing	Ironhousing for inside and outside installation
Mounting Information	Wall bracket
LED Display	3
LCD Display	16*2 Character LCD with backlight
Data Logger Data Communication Interfaces	RS485, Optional(Wi-Fi, GPRS, Ethernet)
Computer Communication	RS232 as Option
Warranty	5 Years(Optional 10~25 years)