

## Replus 3000MTLA Replus 4000MTLA Replus 5000MTLA

Specifications are subject to change without further notification.

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 sized solar PV projects in industrial, commercial and residential applications. Replus inverters are available in sizes from 1 kW to 20 kW, and optimized for cost-efficiency in megawatt sized power plants.



Transformerless design,  
high efficiency (Max.97.7%, Euro.97.1%)



Easy wiring, installation, and operation



Double MPPT Tracker



IP 65 design, suitable for indoor  
and outdoor installation



High Maximum Power Point Tracking (MPPT)  
accuracy (>99.5%)



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



Wide DC input range(100-550Vdc), compatible  
with different PV module technologies



Input (DC)	Replus 3000MTLA	Replus 4000MTLA	Replus 5000MTLA
Max. PV-Generator Power [Wp]	3200	4200	5200
Max. DC Voltage [V]		550	
MPPT Voltage Range [V]		125~440	
MPPT Voltage Range[V](Full Load)		200~440	
DC Nominal Voltage [V]		360	
Start Voltage [V]		150	
Min. DC Voltage [V]		100	
Max. DC Current Input A / Input B [A]	15/15	15/15	16/16
Number of DC Connection Sets		2	
Number of MPP Trackers	2	2	2[can parallel]
DC Switch		optional	

Output (AC)	Replus 3000MTLA	Replus 4000MTLA	Replus 5000MTLA
Rated AC Power [W]	3000	4000	5000
Max. AC Power [W]	3300	4400	5000
Rated AC Current [A]	13	17.4/16	21.7
Max. AC Current [A]	15	20/16	25
Nominal AC Voltage/Range		220V, 230V, 240V/180V-280V	
Grid Frequency/Range		50Hz, 60Hz / ±5Hz	
Power Factor(cos φ)		>0.99[full load]	
AC Current Distortion (THDi)		< 2%	
Consumption at Night [W]		< 0.2	
Consumption at Standby [W]		6	

Efficiency	Replus 3000MTLA	Replus 4000MTLA	Replus 5000MTLA
Max. Efficiency	97.60%	97.60%	97.70%
Euro Efficiency (at 360Vdc)	96.80%	96.80%	97.10%
MPPT Accuracy		>99.5%	

## Protection

Internal Overvoltage Protection	Integrated
DC Insulation Monitoring	Integrated
DC Side Varistors	Integrated
Direct Current Monitoring	Integrated
Ground Fault Current Monitoring	Integrated
Grid Monitoring	Integrated
AC Short Current Protection	Integrated
Thermal Protection	Integrated
Anti-island protection monitoring	AFD

## Interface

AC Connection	Terminals
DC Connection	MC4/H4
LCD Display	LCD(16x2 Characters, Backlight) & LED(3 Lights)
Display Language	Multi Language
Data logger & Communication	2*RS485(Standard), WiFi/Ethernet(Optional)

## General Data

Isolation	Transformerless
Operating Temperature Range	-25°C to +60°C (45°C to 60°C with power derating)
Cooling Method	Natural Convection
Ambient Humidity	0% to 98% Non-condensing
Site Altitude above Sea Level	Up to 2000m
Noise Emission (dBA)	<40
IP Protection	IP65 [Indoor or Outdoor Installation]
Mounting	Rear Panel
Dimensions (WxHxD) [mm]	525*425*175 / 525*425*190
Weight [kg]	23 / 26
Standard Warranty (Year)	5 / 10 / 15 / 20 / 25 [Optional]
Safety Class Compliance	AS3100, IEC62109-1, IEC62109-2
EMC Compliance	EN61000-6-2, EN61000-6-3 EN61000-3-2, EN61000-3-3
Grid Protection Compliance	VDE 0126-1-1/A1, VDE 4105, G83 G59, RD1699, C10/11, AS4777.3 EN50438, IEC61727, IEC62116