

Replus 1500TLA Replus 2000TLA Replus 3000TLA Replus 4000TLA

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.97.6%, Euro.96.8%)



Easy wiring, installation, and operation



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



IP 65 design, suitable for indoor
and outdoor installation



Wide DC input range, compatible with
different PV module technologies



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



Input (DC)	Replus 1500TLA	Replus 2000TLA	Replus 3000TLA	Replus 4000TLA
Max. PV-Generator Power [Wp]	1800	2300	3200	4200
Max. DC Voltage [V]	480	480	550	550
MPPT Voltage Range [V]	120~384	120~384	125~440	125~440
MPPT Voltage Range[V](Full Load)	164~384	190~384	200~440	225~440
DC Nominal Voltage [V]		360		
Start Voltage [V]		150		
Min. DC Voltage [V]		100		
Max. DC Current [A]	11	12	17	20
Number of DC Connection Sets	1	1	2	2
Number of MPP Trackers		1		
DC Switch		optional		

Output (AC)	Replus 1500TLA	Replus 2000TLA	Replus 3000TLA	Replus 4000TLA
Rated AC Power [W]	1500	2000	3000	4000
Max. AC Power [W]	1650	2000	3300	4400
Rated AC Current [A]	6.5	8.7	13.0	17.4-16
Max. AC Current [A]	8.5	11	16.5	20-16
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 (THD)		< 2%		
Consumption at Night [W]		< 0.2		
Consumption at Standby [W]		6		

Efficiency	Replus 1500TLA	Replus 2000TLA	Replus 3000TLA	Replus 4000TLA
Max. Efficiency	97.40%	97.40%	97.6%	97.6%
Euro Efficiency (at 360Vdc)	96.50%	96.70%	96.8%	96.8%
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]	415*313*140 450*375*177
Weight [kg]	11/21
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, RD1699, C10/11, AS4777.3 EN50438, IEC61727, IEC62116