

Replus-13000TL Replus-17000TL Replus-20000TL

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 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.



Comply with European, Asia-Pacific, and Oceania safety regulations



Transformerless design and high power density, offer lighter and more convenient installation



Double MPPT Tracker, MPPT tracking accuracy up to 99.9%



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



Max. Efficiency 98.2%, European Efficiency 97.8%



Strong AC output power overload capability



Professional radiating design, protection Level IP65, performs well in harsh conditions



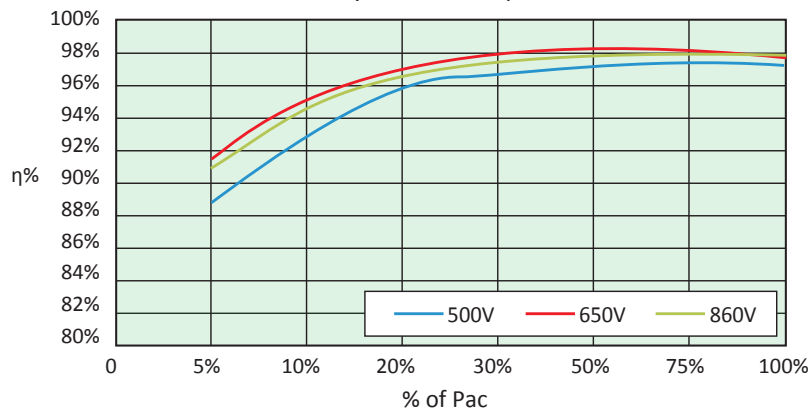
Integrated DC Switch for added safety protection



Flexible input and output connections support RS485, Ethernet, and USB



Efficiency Curve for Replus-20000TL



ENEL Guide RD1663 EN50438 NRS097

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Input (DC)	Replus-13000TL	Replus-17000TL	Replus-20000TL
Max. PV-Generator Power[Wp]	13500	17600	21200
Max DC Voltage [V]		1000	
MPPT DC Voltage Range [V]	400~800	440~800	480~800
Nominal DC Voltage[V]		640	
Max.DC Current(A/B)[A]	22/11	22/22	22/22
Number of MPP Trackers		2	
DC Connection per MPPT		A:3/B:3	

Output (AC)	Replus-13000TL	Replus-17000TL	Replus-20000TL
Nominal AC Voltage		3/N/PE, 230/400V	
Frequency[Hz]		50, 60	
Grid Voltage Range	According to CE, VDE 0126-1-1, Enel-GUIDE, G59, AS4777, C10/C11, IEC 61727		
Max. AC Power[W]	13000	17000	19200
Nominal AC Power[W]	13000	17000	19200
Nominal AC Current[A]	18.8	24.6	28
Max. AC Current[A]	20	26	29
Power Factor (cos)		0.9i ... 1 ... 0.9c	
Harmonic Distortion(THD)		<2%	
Power Consumption at Night[W]		<0.6	
Power Consumption at Standby[W]		<12	

Efficiency	Replus-13000TL	Replus-17000TL	Replus-20000TL
Max. Efficiency	98%	98.1%	98.2%
Euro Efficiency	97.5%	97.6%	97.8%
MPPT Efficiency		99.9%	

Environmental Limits	Replus-13000TL	Replus-17000TL	Replus-20000TL
Operating Temperature Range [°C]	-20°C~60°C	-20°C~60°C (>55°C derating)	-20°C~60°C (>45°C derating)
Relative Humidity		0%~98% (no condensation)	
Altitude[m]		0~2000m	
Noise Level[dB]		<45dB (with fan<50dB)	

Safety and Protection	
DC Surge Protection	Type III
DC Insulation Monitoring	Yes
Earth Fault Protection	Yes
Grid Monitoring	According to VDE 0126-1-1, RD1699, ENEL, G59, AS4777
Earth Fault Current Monitoring	According to VDE 0126-1-1, RD1699, ENEL, G59, AS4777
DC Current Monitoring	According to VDE 0126-1-1, RD1699, ENEL, G59, AS4777
Electricity Fuse Protection	Yes
DC Switch	Yes

Normative Reference	
CE Compliant According to	IEC62109, EN61000-6-2, EN61000-6-3, EN61000-3-12, EN61000-3-11

Dimensions and Weight	
Dimensions (WxHxD)	575*650*240mm / 22.6*25.6*9.4 inch
Weight	45kg / 99lbs
Mounting Information	Wall Bracket
IP Protection Type	IP65 (EN 60529)
Cooling Concept	Convection and Fan cooling

Communication	
Monitoring Connection	RS485, Ethernet
Software Upgrade	RS232(USB)
LCD Display	800*480 TFT Graphic Display
Standard Warranty	5 years(Optional 10~25 years)