

Eversol
TL1500-20
TL2000-20
TL3000-20



EN50438

High Efficiency String Inverter

Features:

- Maximum efficiency of 97%
- Wide range of DC input and MPPT voltage
- Low turn-off DC voltage
- High protection class:IP65
- Perfect protection function
- DC switch improves product reliability
- Certificate:G83/2,VDE-AR-N 4105,AS4777, EN50438
- Light and handy, easy installation and maintenance



ZEVERsolar
Part of the SMA Group

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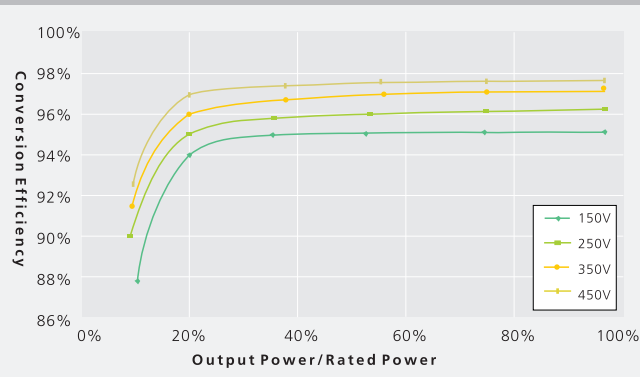
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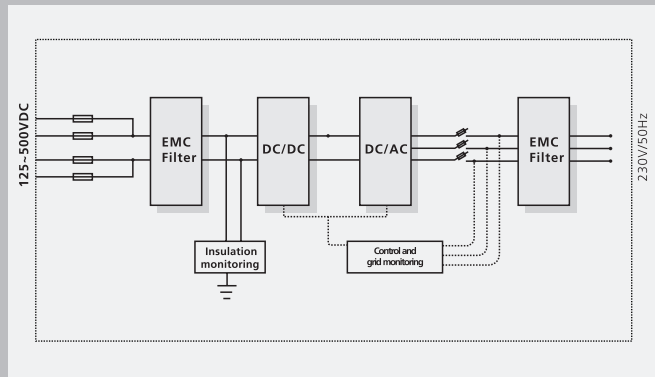
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Efficiency Curve:



Circuit Diagram:



Technical Data	TL1500-20	TL2000-20	TL3000-20
DC input data			
Max. PV-generator power [W]	1800	2300	3300
Max. DC Voltage [V]	500	500	500
Rate input Voltage[V]	360	360	360
MPP voltage range [V]	90-450	90-450	90-450
Full load mpp voltage range [V]	150-450	200-450	200-450
Turn off DC Voltage [V]	70	70	70
Start voltage [V]	125	125	125
Max. DC current [A]	12	12	18
Number of DC connection	1	1	2
Number of MPP trackers	1	1	1
Turn on power [W]	10	10	10
Output data			
Rated AC power [W]	1500	2000	3000
Max. apparent AC Power [VA]	1500(VDE-AR-N 4105)/1650(other)	2000	3000
Rated AC Grid Voltage[V]*		220,230,240	
Rated AC Grid Frequency[Hz]*		50	
AC Voltage Range[V]*		180-280	
AC Frequency Range[Hz] *		45-55	
Rated current [A]	6.5	8.7	13
Max. current [A]	9	11	16
Power factor		0.99	
Power factor(VDE-AR-N 4105)		0.95ind...0.95cap	
Harmonic distortion (THD) at rated output	<2%	<2%	<2%
Power consumption at night [W]	<1	<1	<1
Power consumption at standby [W]	6	6	6
MPPT efficiency			
MPPT adaptation efficiency	99.90%	99.90%	99.90%
Conversion Efficiency			
Max. efficiency	97.00%	97.00%	97.00%
Euro efficiency (at 360VDC)	96.50%	96.50%	96.50%
Safety equipment			
Internal surge protection(according to IEC 61643-1)		Type 3	
DC Insulation monitoring		Integrated	
Earth fault protection		Integrated	
Mains monitoring		Integrated	
Earth fault current monitoring		Integrated	
DC current monitoring		Integrated	
General data			
Dimensions (WxHxD) [mm]		352*426*145	
Weight [kg]	15.3	15.3	15.6
Installation environment		Indoor and outdoor	
Mounting information		Wall bracket	
Operating temperature range		-25°C ... +60°C(up 45°C derating)	
Relative humidity		0% ~ 100%, no condensation	
IP protection type		IP 65 according to IEC 60529	
Isolation type		Transformerless	
Cooling concept		Convection	
Noise level		< 40 dB(A)@1m	
LED display		3	
LCD display		Backlight, 16 x 2 Characters	
Communication interface		RS485	
Standard warranty		5 years	
Certificates and approvals	EN61000-6-2,EN61000-6-3,EN61000-3-2,EN61000-3-3,EN62109-1,EN62109-2,AS/NZS3100, VDE-AR-N 4105,AS4777.2, AS4777.3,C 10/11,UTEC 15-712-1, NEN50438,G83/2,EN50438		

*:the data may vary depending on specific country grid standard