

Type	Omniksol-13k-TL	Omniksol-17k-TL	Omniksol-20k-TL
Input(DC)			
Max. PV Module Power [W]	15600	20400	23000
Max. DC Voltage [V]	1000	1000	1000
Nominal DC Voltage [V]	640	640	640
Operating MPPT Voltage Range [V]	250 – 800	250 – 850	250 – 850
MPPT Voltage Range at Nominal	400 – 800	440 – 850	480 – 850
Start up DC Voltage [V]	300	300	300
Turn off DC Voltage [V]	250	250	250
Max. DC Current [A]	A: 22 / B: 11	A: 22 / B: 22	A: 22 / B: 22
Max. Short Circuit Current [A]	A: 25 / B: 15	A: 25 / B: 25	A: 25 / B: 25
Number of MPP trackers	A: 1 / B: 1	A: 1 / B: 1	A: 1 / B: 1
Number of DC Connection	A: 3 / B: 3	A: 3 / B: 3	A: 3 / B: 3
DC Connection Type	Amphenol Connector	Amphenol Connector	Amphenol Connector
Output(AC)			
Max. AC Apparent Power [VA]	13000	17000	19200
Nominal AC Power [W]	13000	17000	19200
Nominal Grid Voltage [V]	3/N/PE; 220/380	3/N/PE; 220/380	3/N/PE; 220/380
	3/N/PE; 230/400	3/N/PE; 230/400	3/N/PE; 230/400
	3/N/PE; 240/415	3/N/PE; 240/415	3/N/PE; 240/415
Nominal Grid Frequency [Hz]	50 / 60	50 / 60	50 / 60
Max. AC Current [A]	20	26	29
Grid Voltage Range [V]*	185 – 276	185 – 276	185 – 276
Grid Frequency Range [Hz]*	45 – 55 / 55 – 65	45 – 55 / 55 – 65	45 – 55 / 55 – 65
Power Factor	0.9i - 0.9c	0.9i - 0.9c	0.9i - 0.9c
Total Harmonic Distortion (THD)	<2%	<2%	<2%
Night time Power Consumption [W]	<1	<1	<1
AC Connection Type	Terminal Blocks	Terminal Blocks	Terminal Blocks
Efficiency			
Max. Efficiency	98. 0%	98. 1%	98. 2%
Euro Efficiency	97. 5%	97. 6%	97. 8%
MPPT Efficiency	99. 9%	99. 9%	99. 9%
Safety and Protection			
Protection Functions	Array ground insulation resistance monitoring	Output over current protection	Residual current monitoring
	Array polarity reverse protection	Output over/under voltage protection	Surge protection
	Array over voltage protection	Output over/under frequency protection	Anti-island protection
	Array over current protection	Output short circuit protection	Over temperature protection
Protection Class	I (According to IEC 62103)		
Overvoltage Category	PV II / Mains III (According to IEC 62109-1)		
Reference Standard			
Safety Standard	IEC/EN 62109		
EMC Standard	EN 61000-6-1, EN61000-6-3, EN 61000-6-2, EN61000-6-4, EN61000-3-11, EN 61000-3-12		
Grid Standard	VDE-AR-N 4105, VDE 0126-1-1, C10/11, G59/3, UTE C 15-721-1, AS4777, CEI 0-21, EN50438, NB/T32004		
Physical Structure			
Dimensions (WxHxD) [mm]	575 * 650 * 248		
Weight [kg]	45		
Environmental Protection Rating	IP 65 (According to IEC 60529)		
Cooling Concept	Natural convection		
Mounting Information	Wall bracket		
General Data			
Operating Temperature Range [°C]	-25 to +60 (derating above 45°C)		
Relative Humidity	0% to 100%,no condensation		
Max. Altitude (above sea level) [m]	2000		
Noise Level [dB]	<40		
Isolation Type	Transformerless		
Display	TFT Display		
Data Communication Interfaces	RS485 / WiFi / GPRS optional		
Guarantee	5 - 25 years optional		
*The AC voltage and frequency range may vary depending on specific country grid.			