

Type	Omniksol-4k-TL2-TH	Omniksol-5k-TL2-TH	Omniksol-6k-TL2-TH
Input (DC)			
Max. PV Power [W]	4150	5200	6300
Max DC Voltage [V]	1000	1000	1000
Nominal DC Voltage [V]	640	640	640
Operating MPPT Voltage Range [V]	150 - 800	150 - 800	150 - 800
MPPT Voltage Range at Nominal Power [V]	200 - 800	225 - 800	275 - 800
Start up DC Voltage [V]	220	220	220
Turn off DC Voltage [V]	120	120	120
Max. DC Current [A]	A : 11 / B : 11	A : 11 / B : 11	A : 11 / B : 11
Max. Short Circuit Current for each MPPT [A]	A : 16 / B : 16	A : 16 / B : 16	A : 16 / B : 16
Number of MPP trackers	A : 1 / B : 1	A : 1 / B : 1	A : 1 / B : 1
Number of DC Connection for each MPPT	A : 2 / B : 2	A : 2 / B : 2	A : 2 / B : 2
DC Connection Type	MC4 connector	MC4 connector	MC4 connector
Output (AC)			
Max. AC Apparent Power [VA]	4000	5000	6000
Nominal AC Power [W]	4000	5000	6000
Nominal Grid Voltage [V]	3/N/PE; 220/380 3/N/PE; 230/400 3/N/PE; 240/415	3/N/PE; 220/380 3/N/PE; 230/400 3/N/PE; 240/415	3/N/PE; 220/380 3/N/PE; 230/400 3/N/PE; 240/415
Nominal Grid Frequency [Hz]	50 / 60	50 / 60	50 / 60
Max. AC Current [A]	6.1	7.6	9.2
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	0.9 c...0.9i	0.9 c...0.9i	0.9 c...0.9i
Total Harmonic Distortion (THD)	< 2%	< 2%	< 2%
Feed in Starting Power [W]	30	30	30
Night time Power Consumption [W]	< 1	< 1	< 1
Standby Consumption [W]	10	10	10
AC Connection Type	Plug - in connector	Plug - in connector	Plug - in connector
Efficiency			
Max. Efficiency	98.0%	98.2%	98.2%
Euro Efficiency	97.5%	97.6%	97.6%
MPPT Efficiency	99.9%	99.9%	99.9%
Safety and Protection			
DC Insulation Monitoring	Yes		
DC Switch	Optional		
Residual Current Monitoring Unit (RCMU)	Integrated		
Grid Monitoring with Anti-islanding	Yes		
Protection Class	I (According to IEC 62103)		
Overvoltage Category	PV II / Mains III (According to IEC 62109 - 1)		
Reference Standard			
Safety Standard	EN 62109, AS/NZS 3100		

EMC Standard	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN61000-3-2, EN61000-3-3
Grid Standard	VDE 0126-1-1, VDE-AR-N 4105,RD1663,RD1699,EN50438, C10/11, G83/1,G59/3, UTE C15-712-1, AS4777, NB/T32004, CEI 0-21
Physical Structure	
Dimensions (WxHxD) [mm]	354 * 431 * 154.5
Weight [kg]	18
Environmental Protection Rating	IP 65 (According to IEC 60529)
Cooling Concept	Natural cool
Mounting Information	Wall bracket
General Data	
Operating Temperature Range [°C]	-25 ~ +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	3 LED, Backlight,20 * 4 Character LCD
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