

**General specifications - Outdoor models**

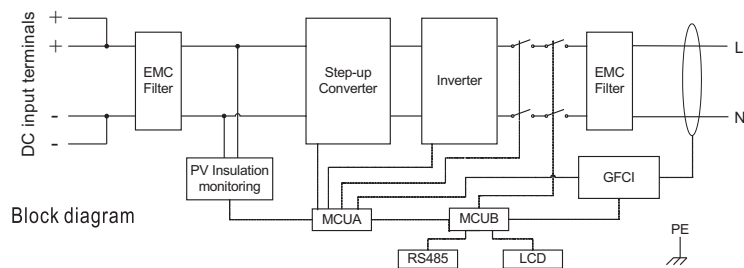
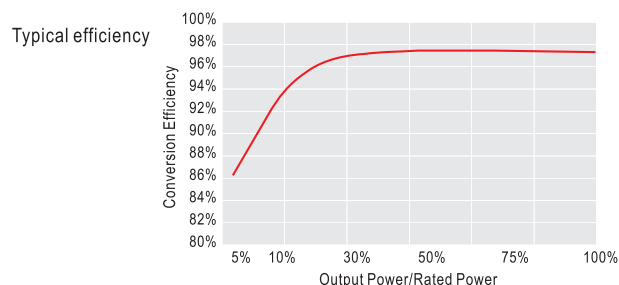
EP-TL2K  
EP-TL3K

**Benefits**

- ▶ Wide range of DC input and MPPT voltage
- ▶ High reliability with full protective functions
- ▶ Integrated DC switch for PV panel isolation
- ▶ Transformerless technology with maximum efficiency over 97%
- ▶ Certified grid-connected operation according to local standards
- ▶ RS485 and options of Ethernet/USB/Wireless
- ▶ Compact and lightweight design for ease of installation
- ▶ IP65 weather proof protection against harsh environment
- ▶ Natural convection



**Typical efficiency and Block diagram**



MODEL	EP-TL2K	EP-TL3K
<b>INPUT PARAMETERS</b>		
Nominal DC Power	2100 W	3100 W
Max. Recommended DC Power	2350 W	3500 W
Operating Input Voltage Range	125 V~550 V	
MPPT Voltage Range at Nominal Power	180 V~ 500 V	
Absolute Max. DC Input Voltage	550 V	
Nominal Input Voltage	360 V	
Startup Voltage	150 V	
Number of Independent MPPT Trackers	1	
Number of DC Inputs	2	
Max. DC Current	12 A	18 A
<b>OUTPUT PARAMETERS</b>		
Nominal AC Power	2000 W	3000 W
Max. AC Power	2200 W	3300 W
AC Grid Connection	Single phase	
Nominal AC Voltage	230 Vac	
Maximum AC Voltage Range	180 Vac ~ 270 Vac	
Nominal AC Frequency	50 Hz	
AC Grid Frequency Range	45 Hz~55 Hz	
Max. AC Line Current	11A	16.5A
Power Factor	0.99	
AC Current Distortion [THD]	<2%	
DC Current Injection	<0.5% of rated output current	
<b>EFFICIENCY</b>		
Max. Efficiency	97.4%	
Euro Efficiency	96.5%	
MPPT efficiency	>99%	
<b>PROTECTION</b>		
DC Reverse-polarity Protection	Yes (from limited current source)	
DC Disconnection Switch	Yes	
Ground Fault Monitoring	Yes	
AC Short Circuit Protection	Yes	
PV Panel Insulation Monitoring	According to local standard	
Anti-islanding Protection	According to local standard	
<b>GENERAL PARAMETERS</b>		
Environmental IP Rating	IP65	
Cooling	Natural Convection	
Ambient Temp. Range	-20℃~+60℃	
Relative Humidity	0~100%, condensing	
Operating Altitude	2000 m	
Night Consumption	0.2W	
Isolation	Non-isolation, Transformerless	
Display	LCD graphic	
Communication	Standard: RS485. Option: Ethernet/USB/Wireless	
<b>MECHANICAL PARAMETERS</b>		
Dimensions (W X H X D ,mm)	340X512X156	
Weight(kg)	15	16