



# X3



## SOLAX SOLAR INVERTER

ZDNY-TL10000 / 12000 / 15000 / 17000

Optimized three phase inverter

### THREE PHASE DUAL MPPT

#### High performance

- MPPT efficiency up to 99.9%
- Maximum efficiency up to 98.2%
- Maximum DC input voltage of 1000V
- Dual MPP tracker and wide MPPT voltage range for more flexible
- Configuration and higher yield

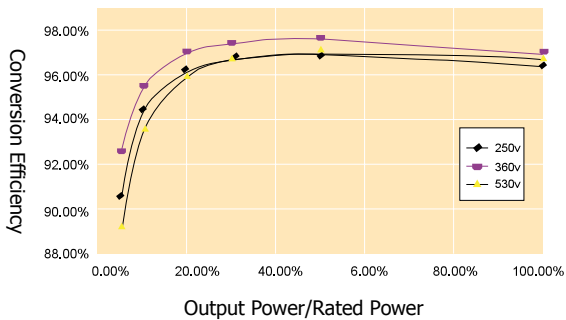
#### Flexibility and reliability

- Integrated DC switch
- OptiCool: temperature controlled fan
- High protection class IP65 (indoor/outdoor use)
- Multiple protections: RCD, ISO, over voltage, and earth protection, etc

#### User-friendly

- Multi-lingual display
- Graphic LCD display
- RS485, Bluetooth, WIFI and 3G (optional) communication for monitoring
- "Plug and play" connection for easy installation and maintenance

Efficiency Curve



## Technical Data

Inverter Model	ZDNY-TL10000	ZDNY-TL12000	ZDNY-TL15000	ZDNY-TL17000
<b>► Input (DC)</b>				
Max. recommended DC power [W]	10260	12300	15370	17420
Max. turn on DC voltage [V]	1000	1000	1000	1000
Max. input current [A]	A:22 /B:11	A:22 /B:11	A:22 /B:22	A:22 /B:22
MPPT voltage range [V]	320-800	380-800	350-800	400-800
Min. DC voltage /start voltage [V]	220/250	220/250	220/250	220/250
Number of MPP trackers /strings per MPP tracker	2/A:3 B:1	2/A:3 B:1	2/A:3 B:3	2/A:3 B:3
<b>► Output (AC)</b>				
AC nominal power [W]	10000	12000	15000	17000
Max. AC power [W]	10000	12000	15000	17000
Nominal AC voltage; range [V]	3/N/PE 230/400; 160-280			
AC grid frequency; range [Hz]	50; 44-55			
Max. AC current [A]	16	20	24	25
Power factor (Full load)	0.9 overexcited...0.9 underexcited			
Total harmonic distortion (THD)	<3%	<3%	<3%	<3%
<b>► Efficiency</b>				
MPPT efficiency	99.9%	99.9%	99.9%	99.9%
Euro-efficiency	97.6%	97.6%	97.6%	97.6%
Max. efficiency	98.2%	98.2%	98.2%	98.2%
<b>► Power consumption</b>				
Input standby power [W]	<10	<10	<10	<10
Internal consumption (night) [W]	<1	<1	<1	<1
<b>► Safety and protection</b>				
DC disconnect device	YES			
Internal overvoltage protection	YES			
DC current/insulation monitoring	YES/YES			
Grid monitoring/Earth fault monitoring	YES/YES			
Islanding protection	YES			
RCD protection	YES			
Protection class(IEC62103)/overvoltage category(IEC 60664-1)	Ⅲ/Ⅲ			
<b>► Environment limits</b>				
Degree of protection	IP65 (IP54 for fan)			
Operating temperature range [°C]	-20~60 (derating at 45)			
Humidity [%]	0~95 (non-condensing)			
Altitude [m]	2000			
Storage temperature [°C]	-20~60			
Noise emission (typical) [dB]	< 50			
<b>► Dimensions and weight</b>				
Dimensions (WxHxD)[mm]	513x651.5x207			
Weight [Kg]	48	48	50.5	50.5
Cooling concept	OptiCool: temperature controlled fan			
Topology	transformer-less			
Communication interfaces	RS485/RS232/Dry contact (wifi optional)			
LCD display	Graphic LCD			
Standard warranty [year]	5 (10 optional)			
<b>► Connector</b>				
Input (DC)	Amphenol H4			
Output (AC)	Weiland plug-in connector			

