

# X3



## SOLAX SOLAR INVERTER

ZDNY-TL10000 / 12000 / 15000 / 17000 / 20000

Optimised 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

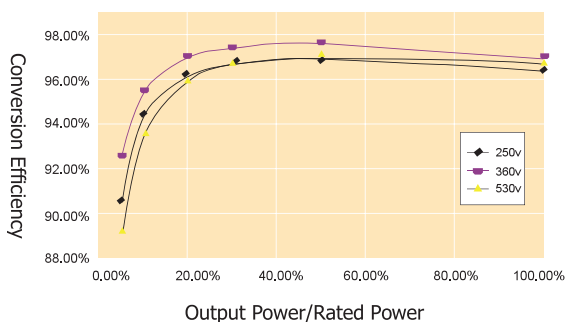
#### Flexibility and reliability

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

#### User-friendly

- Multi-lingual display
- Graphic LCD display
- RS485, 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	ZDNY-TL 20000
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## ► Input (DC)

Max. recommended DC power [W]	10260	12300	15370	17420	20500
Max. turn on DC voltage [V]	1000	1000	1000	1000	1000
Max. input current [A]	A:22 /B:11	A:22 /B:11	A:22 /B:22	A:22 /B:22	A:22 /B:22
MPPT voltage range [V]	320-800	380-800	350-800	400-800	400-800
Min. DC voltage /start voltage [V]	220/250	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	2/A:3 B:3

## ► Output (AC)

AC nominal power [W]	10000	12000	15000	17000	20000
Max. AC power [W]	10000	12000	15000	17000	20000
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	29
Power factor (Full load)	0.9 overleading ...0.9 underlagging				
Total harmonic distortion (THD)	<3%	<3%	<3%	<3%	<3%

## ► Efficiency

MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%
Euro-efficiency	97.6%	97.6%	97.6%	97.6%	97.6%
Max. efficiency	98.2%	98.2%	98.2%	98.2%	98.2%

## ► Power consumption

Input standby power [W]	<10	<10	<10	<10	<10
Internal consumption (night) [W]	<1	<1	<1	<1	<1

## ► Safety and protection

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)	I / III

## ► Environment limits

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

## ► Dimensions and weight

Dimensions (WxHxD)[mm]	513x651.5x207				
Weight [Kg]	48	48	50.5	50.5	51
Cooling concept	OptiCool: temperature controlled fan				
Topology	transformer-less				
Communication interfaces	RS485/RS232/Dry contact (WIFI optional)				
LCD display	Graphic LCD				
Standard warranty [years]	5 (10 optional)				