



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 at 1000V
- Photon Double Rated
- Dual MPP trackers and wide MPPT voltage range for more flexibility
- Configuration and higher yield

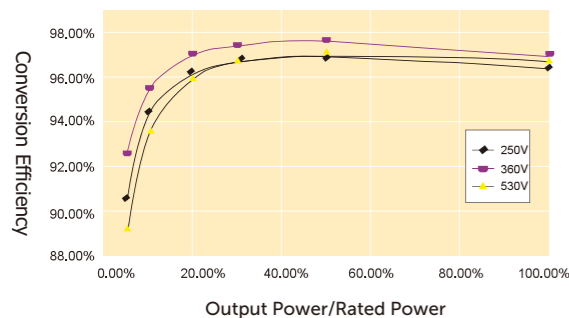
Flexibility and reliability

- Integrated DC switch
- 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(Optional) 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-TL20000
► Input (DC)					
Max. DC input power [W]	10260	12300	15370	17420	20500
Max. DC input 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	480-800
Min. DC voltage/starting voltage [V]	220/250	220/250	220/250	220/250	220/250
No. 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)					
Nominal AC 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 leading to 0.9 lagging				
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 (IEC60664-1)	I/III				
► Environment limits					
Protection class	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]	513 x 651.5 x 207				
Weight [kg]	48	48	50.5	50.5	51
Cooling concept	Temperature controlled fan				
Topology	Transformer-less				
Communication interfaces	RS485/RS232/Dry contact (WIFI,3G optional)				
LCD display	Graphic LCD				
Standard warranty [years]	5 (10 optional)				