

X3

10T ~ 36T

THREE PHASE INVERTERS



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X3 THREE PHASE INVERTER

SolaX have developed a range of three phase inverters unrivalled in the industry for their quality, reliability and efficiency.

The SolaX three-phase inverters boast a wide MPPT voltage range to allow for more energy harvesting and have a maximum input voltage of 1000V. In addition, all SolaX three-phase inverters are IP65 rated, have an integrated DC switch, WIFI as standard and an OptiCool temperature controlled fan.



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	ZDNY-TL10000	ZDNY-TL12000	ZDNY-TL15000	ZDNY-TL17000	ZDNY-TL20000	X3-30T	X3-36T
INPUT (DC)							
Max.recommended DC power [W]	10260	12300	15370	17420	20500	36000	43200
Max. input DC voltage [V]	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	A:34/B:34	
MPPT voltage range [V]	320-800	380-800	350-800	400-800	400-800	480-850	580-850
Start input/output voltage [V]						300	
Number of MPP tracker/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	2/A:4 B:4	
OUTPUT (AC)							
AC nominal power [VA]	10000	12000	15000	17000	20000	30000	36000
Max. AC power [VA]	10000	12000	15000	17000	20000	33000	40000
Normal AC voltage; range [V]	3/N/PE 230/400; 160-280			3/PE 380, 400; +/-10%; 3/N/PE 380, 400; +/-10%; 3/PE 480; +/-10%; 3/N/PE 480; +/-10%;			
AC grid frequency; range [Hz]	50; 44-55 / 60;55-65			50;45-55 / 60;55-65			
Max. AC current [A]	16	20	24	25	29	48*3	48*3
Power factor (full load)	0.9 leading ~ 0.9lagging			0.8 leading ~ 0.8 lagging			
Total harmonic distortion(THD) [%]	<3			<2			
POWER CONSUMPTION							
Standby power[W]	<10			<7			
EFFICIENCY							
MPPT efficiency[%]	99.9			99.9			
Euro efficiency[%]	97.6			98.3			
Max. efficiency[%]	98.2			98.6			
SAFETY & PROTECTION							
Over voltage protection	YES			YES			
Over current protection	YES			YES			
DC isolation impedance monitoring	YES(optional)			YES			
Ground fault current monitoring	YES			YES			
DC injection monitoring	YES			YES			
RCD protection	YES			YES			
Safety	IEC62109-1/IEC62109-2/AS3100			IEC62109-1/IEC62109-2/AS3100			
EMC	EN 61000-3-2/EN 61000-3-3/EN 61000-3-11/EN 61000-3-12/EN 61000-6-2/EN 61000-6-3			EN 61000-3-2/EN 61000-3-3/EN 61000-3-11/EN 61000-3-12/EN 61000-6-2/EN 61000-6-3			
Certification	G83;G59;VDE0126;VDE4105;CQC;IEC62172;IEC62116;IEC61683;IEC60068			NB/T 32004-2013/ZVRT/VDE4105/G59/3/AS4777			
ENVIRONMENT LIMITS							
Protection class	IP55			IP65			
Operating temperature[°C]	-25~+60 (derating at 45)			-20~ +60(derating at 45)			
Humidity[%]	0~95 (non-condensing)			0~95			
Attitude[m]	2000			2000			
Storage temperature[°C]	-20~60			-25~60			
Noise emission[dB]	<50			<50			
DIMENSION & WEIGHT							
Dimensions(W*H*D) [mm]	513 x 651.5 x 207			660*610*260			
Weight[Kg]	48	48	50.5	50.5	51	60	
GENERAL DATA							
Topology	Transformerless			Transformerless			
Communication interface	RS485 / RS232 / WIFI (optional) / DRM			RS485 / WIFI (optional) / Ethernet / DRM			
Display	Backlight 128*64 point LCD			4 LED			
Standard warranty[years]	5-10			5-10			
Cooling type	Forced-cooling			Forced-cooling			