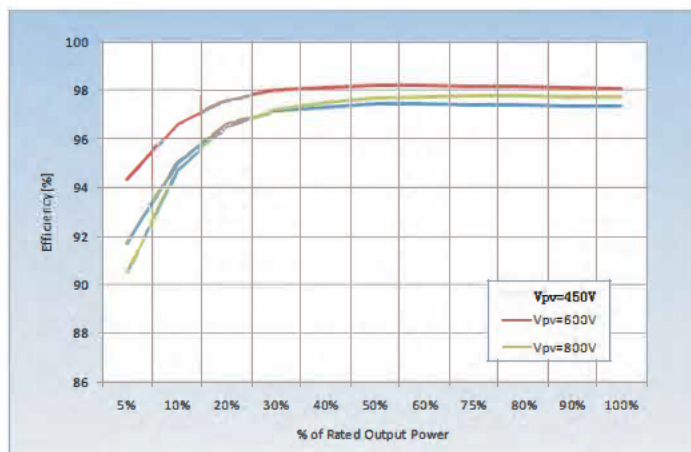


3.3-12KW Three Phase Inverter (Dual MPPT)

SOFAR (3.3K/4.4K/5.5K/6.6K/8.8K/11K/12K) TL-X



Efficiency Curve

High-yield

- Max 98.3% efficiency
- Real time precise MPPT algorithm for max harvest
- Wide input voltage operation range from 160V to 960V

All in one, flexible and economical system solution

- DC switch
- 4 inch screen, English display
- Optimum selection for big PV plants, commercial buildings...

Low maintenance cost

- High powered density
- Rust free aluminum covers
- Flexible monitoring solution
- Small size, lightweight

Intelligent grid management

- Reactive power adjustable
- Self power reducer when over frequency
- Remote active/reactive power limit control

MASS ENERGY INVERTER Three Phase Inverter



3.3KTL-X/4.4KTL-X/5.5KTL-X/6.6KTL-X/8.8KTL-X/11KTL-X/12KTL-X

Datasheet

SOFAR
3.3KTL-X

SOFAR
4.4KTL-X

SOFAR
5.5KTL-X

SOFAR
6.6KTL-X

SOFAR
8.8KTL-X

SOFAR
11KTL-X

SOFAR
12KTL-X

Input(DC)

Typical PV Power	3600W	4800W	6000W	7200W	9600W	12000W	14400W
Max DC power per MPPT	3600W(300V-850V)	4800W(440V-850V)	6000W(545V-850V)	7200W(660V-850V)	8800W(800V-850V)	8800W(800V-850V)	8800W(800V-850V)
Number of independent MPPT	2						
Number of DC inputs	1 for each MPPT						
Max. input voltage	1000V						
Start-up input voltage	180V						
Rated input voltage	600V						
MPPT voltage range	160V-960V						
Full load DC voltage range	190V-850V	190V-850V	240V-850V	290V-850V	380V-850V	480V-850V	575V-850V
Max. input current per MPPT	11A/11A						
Input short circuit current for each MPPT	14A						

Output(AC)

Rated power	3000W	4000W	5000W	6000W	8000W	10000W	12000W
Max. AC power	3300VA	4400VA	5500VA	6600VA	8800VA	11000VA	13200VA
Max. output current	4.8A	6.4A	8.0A	9.6A	12.8A	15.9A	19.1A
Nominal Grid Voltage	3/N/PE,220/380		3/N/PE,230/400		3/N/PE,240/415		
Grid Voltage Range	184V-276V(According to local standard)						
Nominal Frequency	50/60Hz						
Grid frequency range	50Hz, +/-5Hz (According to local standard)						
Active power adjustable range	0~100%						
THDi	<3%						
Power factor	1 (adjustable +/-0.8)						

Performance

Max. efficiency	98%	98.3%
Weighted eff. (EU/CEC)	97.5%	98%
Self-consumption at night	<1W	
Feed-in start power	45W	
MPPT efficiency	>99.9%	

Protection

DC reverse polarity protection	Yes
DC switch	Yes
Safety protection	Anti islanding, RCMU, Ground fault monitoring
Certification	IEC 62116, IEC 61727, IEC 61683, IEC 60068(1,2,14,30), IEC 62109 1/2, CE, CGC, AS4777, AS3100, VDE 4105, C10-C11, G83/G59 (more available on request)
ARPC	Anti Reverse Power Controller(optional)

Communication

Power management unit	According to certification and request
Standard Communication Mode	wifi (optional), GPRS(optional), SD card, RS485
Operation Data Storage	25 years

General data

Ambient temperature range	-25°C...+60°C	
Topology	Transformerless	
Degree of protection	IP65	
Allowable relative humidity range	0...100% no condensing	
Max.operating altitude	2000m	
Noise	<29dB	
Weight	21kg	22kg
Cooling	Natural	
Dimension	483*452*200mm	
Display	LCD display	
Warranty	5 years / 7 years / 10 years	



AS4777 G83/2 G59/3

CQC, IEC, VDE-AR-N4105 / VDE-0126, EMC, C10/11, EN50438, RD1669, CEI 0-21