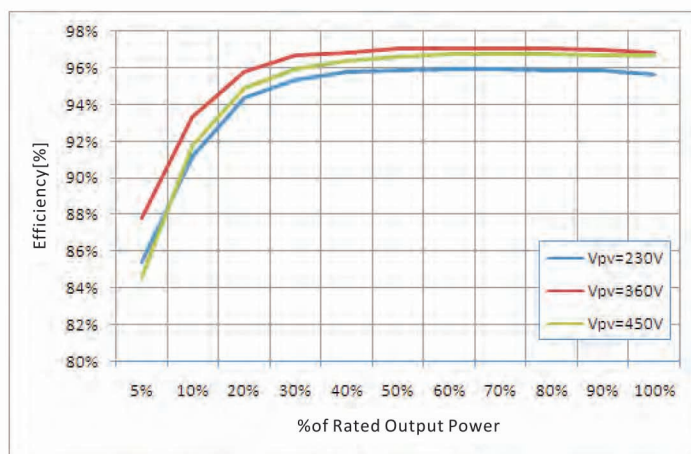


# 1-3KW Single Phase Inverter (Single MPPT)

SOFAR 1100TL/1600TL/2200TL/2700TL/3000TL



Efficiency Curve

## High-yield

- Max 97.2% efficiency
- Real time precise MPPT algorithm for max harvest
- Wide input voltage operation range

## All in one, flexible and economical system solution

- Free site selection due to IP65
- Easy installation and maintenance due to "Plug & Play" connection
- Interface selection – Wi-Fi / RS485 / GPRS
- 4" LCD display
- Built in zero export function (optional)

## Low maintenance cost

- Detachable cover for easy installation
- Rust-free Aluminum covers
- Flexible monitoring solution

## Intelligent grid management

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

# Mass Energy Inverter Single Phase Inverter

SOFAR 1100TL/1600TL/2200TL/2700TL/3000TL



## Datasheet

SOFAR  
1100TL

SOFAR  
1600TL

SOFAR  
2200TL

SOFAR  
2700TL

SOFAR  
3000TL

### Input(DC)

Max.Input Power	1200W	1800W	2400W	2900W	3300W
Number of MPPT/String per MPPT	1/1				
Max. input voltage	450V		500V		
Start-up input voltage	100V		120V		
Rated input voltage	360V				
MPPT voltage range	80-450 V		100-500 V		
Full load DC voltage range	110-450 V	165-450 V	170-500 V	200-500 V	
Max. input current	10A		13A	13.5A	15A

### Output(AC)

Rated Power	1000W	1550W	2100W	2600W	3100W
Max.AC Power	1000VA	1550VA	2100VA	2600VA	3100VA
Max.AC Output Current	4.5A	7A	9.5A	11.5A	13A
Nominal Grid Voltage	230V				
Grid Voltage Range	180~270 V(According to local standard)				
Nominal Frequency	50/60Hz				
Grid frequency Range	47~53 / 57~63Hz (According to local standard)				
THDi	<3%				
Power factor	1 ( adjustable +/-0.8)				
Grid connection	Single phase				
Power Limit export	Zero export or adjustable power limit export				

### Efficiency

Max.efficiency		97%		97.1%	97.2%
Euro efficiency	95.2%	95.9%	96.1%	96.4%	96.5%
MPPT adaptation efficiency	>99.9%				

### Standard

EMC	EN 61000-6-1,EN 61000-6-2,EN 61000-6-3,EN 61000-6-4				
Safety standards	IEC 62116,IEC 61727,IEC 61683,IEC 60068(1,2,14,30),IEC62109-1/2				
Grid standards	AS 4777, VDE V 0124-100, VDE V 0126-1-1, VDE-AR-N 4105, EN50438, G83/2, C10/11, RD1699				

### Protection

Anti-Islanding Protection	Yes				
DC Reverse Polarity Protection	Yes				
Over Temp Protection	Yes				
Leakage Current Protection	Yes				
Over Voltage Protection	Yes				
Over Current Protection	Yes				
Earth Fault Protection	Yes				
SPD	MOV : Type III standard				

### Communication

Standard Communication Mode	WiFi, RS485, GPRS(optional), SD card (optional)				
Operation Data Storage	25 years				
I/O	Yes				

### General Date

DC Switch	optional		
Ambient temperature range	-30°C...+60°C(Above 45°C Derating)		
Topology	Transformerless		
Cooling	Natural		
Allowable relative humidity range	0...100% no condensing		
Max.operating altitude	2000m		
Noise	<25db@1m		
Degree of Protection(per IEC 60529)	IP65		
Dimension	405*314*135mm		
Weight	11kg	12kg	
Self-consumption at night	<1w		
Display	LCD display		
Warranty	10 years		



AS4777 G83/2 G59/3

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