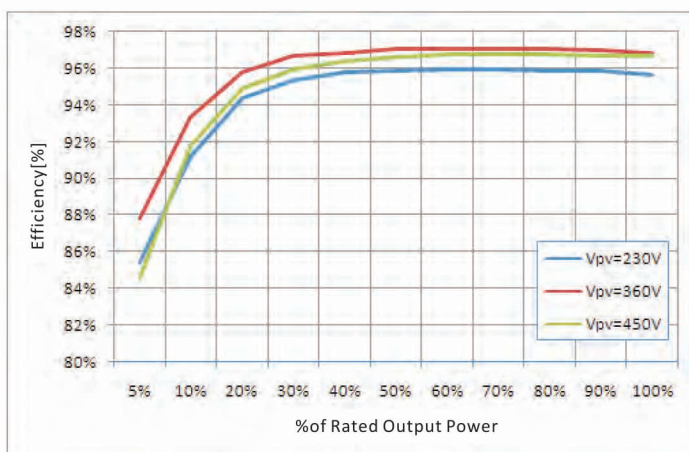


# 1-3KW-G3 Single Phase Inverter (Single MPPT)

1100TL-G3/1600TL-G3/2200TL-G3/  
2700TL-G3/3300TL-G3



Efficiency Curve

## High-yield

- Max 97.7% 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
- 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

1100TL-G3/1600TL-G3/2200TL-G3/  
2700TL-G3/3300TL-G3



## Datasheet

SOFAR  
1100TL-G3

SOFAR  
1600TL-G3

SOFAR  
2200TL-G3

SOFAR  
2700TL-G3

SOFAR  
3300TL-G3

### Input(DC)

Max DC Power	1500W	2200W	3000W	3700W	4500W
Max input voltage	500V			550V	
Auxiliary open voltage				60V	
Start-up input voltage				70V	
Rate input voltage				360V	
MPPT voltage range	50-500V			50-550V	
Full load DC voltage range	110-450V	150-450V	200-450V	250-500V	300-500V
Max input current MPPT	12A				
Input short current	15A				
Number of MPPT/ String per MPPT	1/1				
Input terminal type	MC4/H4				

### Output(AC)

Rated power	1100W	1600W	2200W	2700W	3300W
Max AC power	1100VA	1600VA	2200VA	2700VA	3300VA
Rated output current	4.8A	7A	9.6A	11.8A	13A
Max output current	5.3A	7.7A	10.6A	13A	16A
Nominal Grid Voltage	220Vac/230Vac(Single phase)				
Grid Voltage Range	180-276Vac(According to local standard)				
Nominal Frequency	50Hz/60Hz				
Grid Frequency range	45~55Hz/54~66Hz(According to local standard)				
Active power adjustable range THDi	<3%				
Power factor	1(adjustable+/-0.8)				

### Efficiency

Max. efficiency	97.7%
Weighted eff. (EU/CEC)	97.2%

### 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	Rs485, WiFi/GPRS/Ethernet(optional), USB
Operation Data Storage	25 years

### General Date

Topology	Transformerless	
Ambient temperature range	-30°C...+60°C(Above 45°C Derating)	
Allowable relative humidity range	0~95% no condensing	
Noise	<25dB	
DC switch	optional	
Cooling	Natural convection	
Max. operating altitude	2000m	
Dimension	297*260*118mm	315*260*118mm
Support bracket	Wall-mounted	
Weight	5. 5kg	6. 3kg
Display	LCD+LED	
Degree of protection	IP65	
Warranty	10 years	



AS4777 G83/2 G59/3  
CQC, IEC, VDE-AR-N4105 / VDE-0126, EMC, C10/11, EN50438, RD1669, CEI 0-21