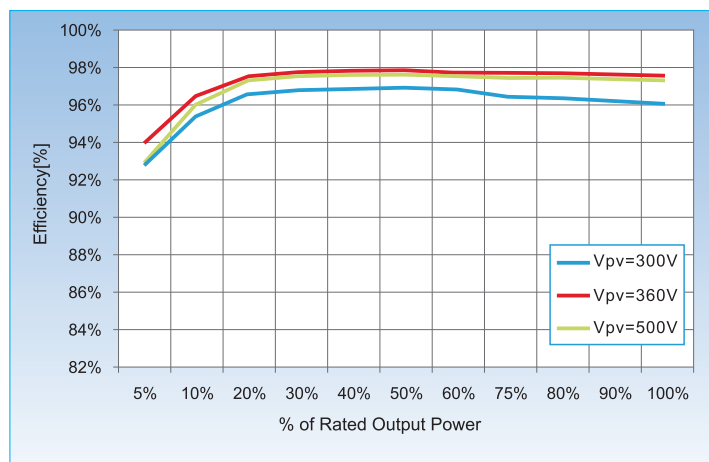


3-7.5KW Single Phase Inverter (Dual MPPT)

3KTLM-G2/3.6KTLM-G2/4KTLM-G2/4.6KTLM-G2/
5KTLM-G2/6KTLM-G2/7.5KTLM



Efficiency Curve

High-yield

- Max 97.8% efficiency
- Real time precise MPPT algorithm for max harvest
- Wide input voltage operation range
- Independent dual MPPT tracking, better to adapt to the various roof power plant designs

All in one, flexible and economical system solution

- Real-time monitoring using mobile phone APP
- Easy installation and maintenance due to "Plug & Play" connection
- RS485 and External WiFi/GPRS(Optional)
- Built-in sound and light alarm function
- Free site selection due to IP65

Low maintenance cost

- Small size, lightweight
- 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



3KTLM-G2/3.6KTLM-G2/4KTLM-G2/4.6KTLM-G2/5KTLM-G2/6KTLM-G2/7.5KTLM
(New upgrade)

Datasheet

SOFAR
3KTLM-G2

SOFAR
3.6KTLM-G2

SOFAR
4KTLM-G2

SOFAR
4.6KTLM-G2

SOFAR
5KTLM-G2

SOFAR
6KTLM-G2

SOFAR
7.5KTLM

Input(DC)

Max. Input power	3500W	4000W	4400W	5000W	5500W	6600W	8300W
Max DC power for single MPPT	2000W(160V-520V)	2400W(180V-520V)	2600W(200V-520V)	3000W(250V-520V)		3500W(300V-520V)	
Number of independent MPPT	2						
Number of DC inputs	1/1						2/1
Max. input voltage	600V						
Start-up input voltage	120V						
Rated input voltage	360V						
MPPT voltage range	90V-580V						
Full load DC voltage range	160V-520V	180V-520V	200V-520V	230V-520V	250V-520V	300V-520V	250V-520V
Max. input current per MPPT	11A/11A						2*11A/11A

Output(AC)

Rated power	3000W	3680W	4000W	4600W	5000W	6000W	7500W
Max. AC power	3000VA	3680VA	4000VA	4600VA	5000VA	6000VA	7500VA
Max. output current	13.7A	16.8A	18.2A	21A	22.8A	27.3A	32.6A
Nominal Grid Voltage	L/N/PE,220,230,240						
Grid Voltage Range	180~276 V(According to local standard)						
Nominal Frequency	50/60Hz						
Grid frequency range	47~55 / 54~66Hz (According to local standard)						
Active power adjustable range	0~100%						
THDi	<3%						
Power factor	1 (adjustable +/-0.8)						
Power Limit export	Zero export or adjustable power limit export						

Performance

Max. efficiency	98.0%	98.2%
Weighted eff. (EU/CEC)	97.5%	97.6%
Self-consumption at night	<1W	
Feed-in start power	50W	
MPPT efficiency	>99.9%	

Protection

DC reverse polarity protection	Yes
DC switch	optional
Protection class /overvoltage category	I/III
Input / output MOV (III)	Yes
Safety protection	Anti islanding, RCMU, Ground fault monitoring
Certification	NB/T32004-2013, AS4777, VDE0126-1-1, G83/2, G59/3, C10/11, RD1699/UTEC15-712-1, EN50438, VDE-AR-N4105 IEC 62116, IEC 61727, IEC 61683, IEC 60068(1,2,14,30), IEC 62109-1/2
SPD	MOV : Type III standard

Communication

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

General data

Ambient temperature range	-25°C~ +60°C	-30°C~ +60°C
Topology	Transformerless	
Degree of protection	IP65	
Allowable relative humidity range	0...100% no condensing	
Max.operating altitude	4000m	
Noise	<25dB	
Weight	11.5kg	18kg
Cooling	Natural convection	
Dimension	405*315*135mm	467*352*157mm
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