

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

3KTLM-G2

3.6KTLM-G2

4KTLM-G2

4.6KTLM-G2

5KTLM-G2

6KTLM-G2

7.5KTLM

Input(DC)

Max. input power	3500W	4000W	4400W	5000W	5500W	6600W	8300W
Max DC power for single MPPT	2000W(160V-520V)	2400W(160V-520V)	2800W(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				

Output(AC)

Rated power	3000 W	3680 W	4000 W	4600 W	5000 W	6000 W	7500 W
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 category	I/III
Input / output MOV (III)	Yes
Safety protection	Anti islanding, RCMU, Ground fault monitoring
Certification	NB/T32004-2013, AS4777, VDE0126-1-1, GB3, C10/11, RD1699/UTE15-712-1, EN50438, VDE-AR-N4105, IEC 621216, IEC 61727, IEC 61683, IEC 60081(L2, 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
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	
Display	LCD display	
Warranty	5 years / 7 years / 10 years	



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