

MASS ENERGY INVERTER Single Phase Inverter

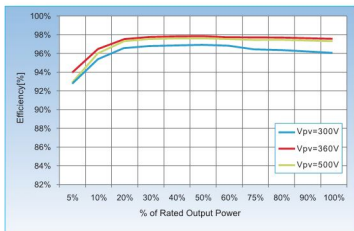
 3KTLM-G2/3.6KTLM-G2/4KTLM-G2/4.6KTLM-G2/5KTLM-G2/6KTLM-G2/7.5KTLM
(New upgrade)



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)		3000W(250V-520V)		3500W(300V-520V)
Number of independent MPPT	2						
Number of DC inputs							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%
Weighted eff. (EU/CEC)							97.5%
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 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/UTEIC15-712-1, EN50438, VDE-AR-N4105, IEC 62216, 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

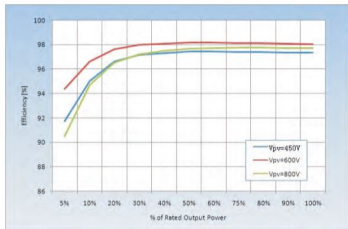
- Small size, lightweight
- Detachable cover for easy installation
- Rust-free Aluminum covers
- Flexible monitoring solution

Intelligent grid management

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

MASS ENERGY INVERTER Three Phase Inverter

10000TL/15000TL/17000TL/20000TL



Efficiency Curve

High-yield

- Max 98.2% efficiency
- Real time precise MPPT algorithm for max harvest
- Wide input voltage operation range from 250V to 960V

All in one, flexible and economical system solution

- DC switch
- DC surge protection device (option)
- AC surge protection device (option)
- Power management unit
- Optimum selection for big PV plants, commercial buildings...

Low maintenance cost

- Detachable cover for easy installation
- Rust-free aluminum covers
- Flexible monitoring solution
- Multi function relay can be configured to show various inverter information

Intelligent grid management

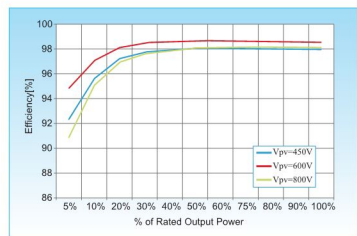
- ZVRT support
- Reactive power adjustable
- Self power reduce when over frequency
- Remote active/reactive power limit control

Datasheet

	10000TL	15000TL	17000TL	20000TL
Input(DC)				
Max Input power	11000W	16500W	18700W	22000W
Max DC power for single MPPT	6750(450V-850V)	10500(500V-850V)	10500(500V-850V)	12000(500V-850V)
Number of independent MPPT	2			
Number of DC inputs	2 for each MPPT			
Max. input voltage	1000V			
Start-up input voltage	350V			
Rated input voltage	600V			
MPPT voltage range	250V-960V			
Full load DC voltage range	350V-850V	370V-850V	420V-850V	430V-850V
Max. input current per MPPT	15A/15A	21A/21A	21A/21A	24A/24A
Input short circuit current for each MPPT	20A	27A	27A	30A
Output(AC)				
Rated power(@230V,50Hz)	10000W	15000W	17000W	20000W
Max. AC power	10000VA	15000VA	17000VA	20000VA
Max. output current	15A	22A	25A	29A
Nominal Grid Voltage	3/N/PE,220/380 or 3/N/PE,240/415 or 3/N/PE,230/400			
Grid Voltage Range	180V - 270V			
Nominal Frequency	50/60Hz			
Grid frequency range	47-53 / 57-63Hz (According to local standard)			
Active power adjustable range	0~100%			
THD	<3%			
Power factor	1(Adjustable +/-0.8)			
Performance				
Max efficiency				98.2%
Weighted eff. (EU/CEC)	97.6%/97.8%	97.9%/98%	97.9%/98%	98%/98.1%
Self-consumption at night	<1W			
Feed-in start power	45W			
MPPT efficiency	>99.9%			
Protection				
DC reverse polarity protection				Yes
DC switch				Yes
Protection class / overvoltage category				I/III
Input/output SPD(III)				Optional
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, G59 (more available on request)			
SPD	MOV - Type III standard / Type II optional			
ARPC	Anti Reverse Power Controller(optional)			
Communication				
Power management unit	According to certification and request			
Standard Communication Mode	RS485, Wifi (optional), GPRS(optional), SD card, Multi-function relay			
Operation Data Storage	2 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	<45dB			
Weight	45kg	45kg	48kg	48kg
Cooling	Natural	Natural	Natural	Natural
Dimension	707*492*240mm			
Display	LCD display			
Warranty	5 years/7 years/10 years			

MASS ENERGY INVERTER Three Phase Inverter

30000TL/33000TL/36000TL/40000TL



Efficiency Curve

High-yield

- Max 98.7% efficiency
- Real time precise MPPT algorithm for max harvest
- Wide input voltage operation range from 250V to 960V

All in one, flexible and economical system solution

- DC switch
- DC surge protection device (option)
- AC surge protection device (option)
- Built-in PV Combiner
- Power management unit
- Optimum selection for big PV plants, commercial buildings...

Low maintenance cost

- Detachable cover for easy installation
- Rust-free aluminum covers
- Flexible monitoring solution
- Multi function relay can be configured to show various inverter information

Intelligent grid management

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

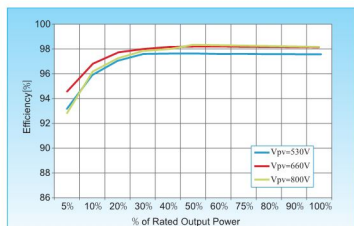
Datasheet

	30000TL	33000TL	36000TL	40000TL
Input(DC)				
Max Input power	33000W	36300W	40000W	44000W
Max DC power for single MPPT	15360W(480V-800V)	17000W(480V-800V)	20400W(500V-800V)	20400W(570V-800V)
Number of independent MPPT	2			
Number of DC inputs	4 for each MPPT			
Max. input voltage	1000V			
Start-up input voltage	350V			
Rated input voltage	600V	600V	600V	700V
MPPT voltage range	250V-960V			
Full load DC voltage range	480V-800V	480V-800V	500V-800V	570V-800V
Max. input MPPT current	64A(32A/32A)	70A(35A/35A)	76A(38A/38A)	70A(35A/35A)
Max. input current per string	12A			
Output(AC)				
Rated power(@230V,50Hz)	30000W	33000W	36000W	40000W
Max. AC power	30000VA	33000VA	36000VA	40000VA
Max. output current	43A	48A	54A	48A
Nominal Grid Voltage	3/N/PE or 3/PE, 230/400Vac			3/N/PE or 3/PE, 277/480Vac
Grid Voltage Range	310Vac-480Vac			
Nominal Frequency	50/60Hz			
Grid frequency range	47-53 / 57-63Hz (According to local standard)			
Active power adjustable range	0-100%			
THDI	<3%			
Power factor	1(Adjustable +/-0.8)			
Performance				
Max efficiency	98.5%	98.5%	98.5%	98.7%
European weighted efficiency	98.2%	98.2%	98.2%	98.4%
Self-consumption at night	<1W			
Feed-in start power	45W			
MPPT efficiency	>99.9%			
Protection				
DC reverse polarity protection	Yes			
DC switch	Yes			
Protection class / overvoltage category	I/III			
Input/output SPD(II)	Optional			
Safety protection	Anti islanding, RCMU, Ground fault monitoring			
Certification	IEC 62116, IEC 61727, IEC 61683, IEC 60068(1, 2, 14, 30), IEC62109-1/2, CE, CGC, ZVRT, AS4777, AS3100, VDE4105, C10, C11, G59(more available on request)			
SPD	MOV - Type III standard / Type II optional			
ARPC	Anti Reverse Power Controller(optional)			
Communication				
Power management unit	According to certification and request			
Standard Communication Mode	RS485, Wifi (optional), GPRS(optional), SD card, Multi-function relay			
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	3000m			
Noise	<30dB	<45dB	<45dB	<45dB
Weight	50kg			
Cooling	Natural	Fan	Fan	Fan
Dimension	767*564*290.5mm			
Display	LCD display			
Warranty	5 years/7 years/10 years			

Save your energy

Three Phase Inverter

50000TL / 60000TL / 70000TL



Efficiency Curve

High-yield

- Max 98.6% efficiency
- Real time precise MPPT algorithm for max harvest
- Wide input voltage operation range from 250V to 960V

All in one, flexible and economical system solution

- DC switch
- DC surge protection device
- AC surge protection device (option)
- Built-in PV Combiner
- Power management unit
- Optimum selection for big PV plants, commercial buildings...

Low maintenance cost

- Detachable cover for easy installation
- Rust-free aluminum covers
- Flexible monitoring solution
- Multi function relay can be configured to show various inverter information

Intelligent grid management

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

Datasheet

	50000TL	60000TL	70000TL
Input(DC)			
Max. Input power	55000W	66000W	77000W
Max DC power for single MPPT	22000W(500V-800V)	22000W(530V-800V)	26000W(660V-800V)
Number of independent MPPT	3		
Number of DC inputs	4/3/3	4/4/4	
Max. input voltage	1000V		
Start-up input voltage	350V		
Rated input voltage	600V	600V	700V
MPPT voltage range	250V-960V		
Full load DC voltage range	500V-800V	530V-800V	660V-800V
Max. input MPPT current	40A/30A/30A	40A/40A/40A	40A/40A/40A
Max. input current per string	12A		
Output(AC)			
Rated power(@230V,50Hz)	50000W	60000W	70000W
Max. AC power	50000VA	60000VA	70000VA
Max. output current	80A	90A	90A
Nominal Grid Voltage	3/N/PE,3/PE,230/400Vac	3/N/PE,3/PE,230/400Vac	3/N/PE, 277/480Vac OR 3/PE, 277/480Vac
Grid Voltage Range	180Vac-270Vac	180Vac-270Vac	245Vac-305Vac
Nominal Frequency	50/60Hz		
Grid frequency range	47-53 / 57-63Hz (According to local standard)		
Active power adjustable range	0-100%		
THDI	<3%		
Power factor	1(Adjustable +/-0.8)		
Performance			
Max efficiency	98.5%	98.6%	98.6%
European weighted efficiency	98.3%	98.4%	98.4%
Self-consumption at night	<1W		
Feed-in start power	45W		
MPPT efficiency	>99.9%		
Protection			
DC reverse polarity protection	Yes		
DC switch	Yes		
Protection class /overvoltage category	I/III		
Input/output SPD(II)	Optional		
Safety protection	Anti islanding, RCMU, Ground fault monitoring		
Certification	IEC 62116, IEC 61727, IEC 61683, IEC 60968 (1, 2, 14, 30), IEC 62109-1/2, CE, CGC, ZVRT, AS4777, AS3100, VDE4105, C10-C11, G59 (more available on request)		
SPD	MOV : Type III standard / Type II optional		
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Communication			
Power management unit	According to certification and request		
Standard Communication Mode	RS485, Wifi (optional), SD card, Multi-function relay		
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	4000m		
Noise	<60dB		
Weight	68kg	70kg	
Cooling	Fan		
Dimension	737*713*297mm		
Display	LCD display		
Warranty	5 years		