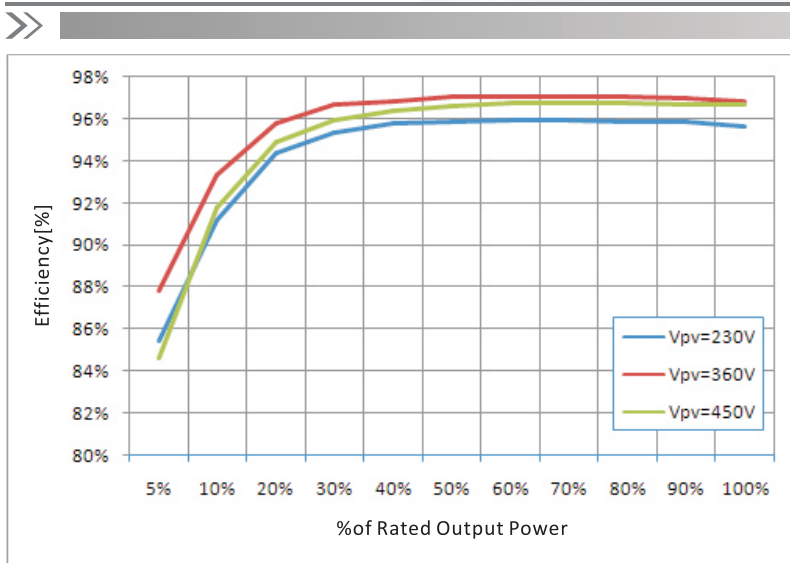


MASS ENERGY INVERTER 1-Phase String Inverter

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

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

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

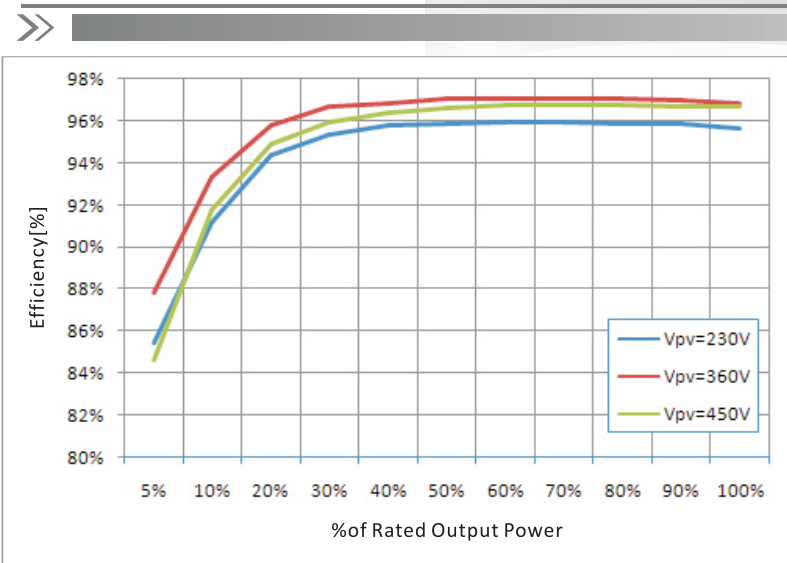
MASS ENERGY INVERTER 1-Phase String Inverter

>> 1100TL/1600TL/2200TL/2700TL/3000TL

Technical Data	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),IEC 62109-1/2				
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				
Communication					
Standard Communication Mode	wifi,RS485,GPRS(optional),SD card				
Operation Data Storage	25 years				
I/O	Yes				
General Date					
DC Switch	optional				
Ambient temperature range	-25°C...+60°C				
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	5 years				

MASS ENERGY INVERTER 1-Phase String Inverter

3000TLM / 3680TLM / 4000TLM / 4600TLM / 5000TLM / 6000TLM



Efficiency Curve

High-yield

- Max 97.6% 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

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

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

MASS ENERGY INVERTER 1-Phase String Inverter

» 3000TLM / 3680TLM / 4000TLM / 4600TLM / 5000TLM / 6000TLM

Technical Data	SOFAR 3000TLM	SOFAR 3680TLM	SOFAR 4000TLM	SOFAR 4600TLM	SOFAR 5000TLM	SOFAR 6000TLM
Input(DC)						
Max. Input power	3300W	4000W	4400W	5000W	5500W	6600W
Max DC power for single MPPT	2000(200V-500V)	2400(200V-500V)	2600(200V-500V)	3000(200V-500V)		3150(250V-520V)
Number of independent MPPT	2					
Number of DC inputs	1 for each MPPT					
Max. input voltage	600V					
Start-up input voltage	100V	120V				
Rated input voltage	360V					
MPPT voltage range	80V-580V	100V-580V				
Full load DC voltage range	160V-520V	165V-520V			175V-520V	250V-520V
Max. input current per MPPT	10A/10A	12A/12A	13A/13A	15A/15A		
Input short circuit current for each MPPT	12A	14A	16A	18A		
Output(AC)						
Rated power	3000W	3680W	4000W	4600W	5000W	6000W
Max. AC power	3000VA	3680VA	4000VA	4600VA	5000VA	6000VA
Max. output current	13A	16A	17.5A	20A	22A	26A
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)					
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	97.6%					
Weighted eff. (EU/CEC)	97.1%/97.3%					
Self-consumption at night	<1W					
Feed-in start power	20W					
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	IEC 62116, IEC 61727, IEC 61683, IEC 60068(1,2,14,30), IEC 62109-1/2 CE, CGC, AS4777, AS3100, VDE4105, C10-C11, G83/G59 (more available on request)					
Communication						
Power management unit	According to certification and request					
Standard Communication Mode	wifi, RS485, GPRS (optional), SD card					
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	2000m					
Noise	<25dB					
Weight	18kg			19kg		
Cooling	Natural					
Dimension	344*478*170mm					
Display	LCD display					
Warranty	5 years					