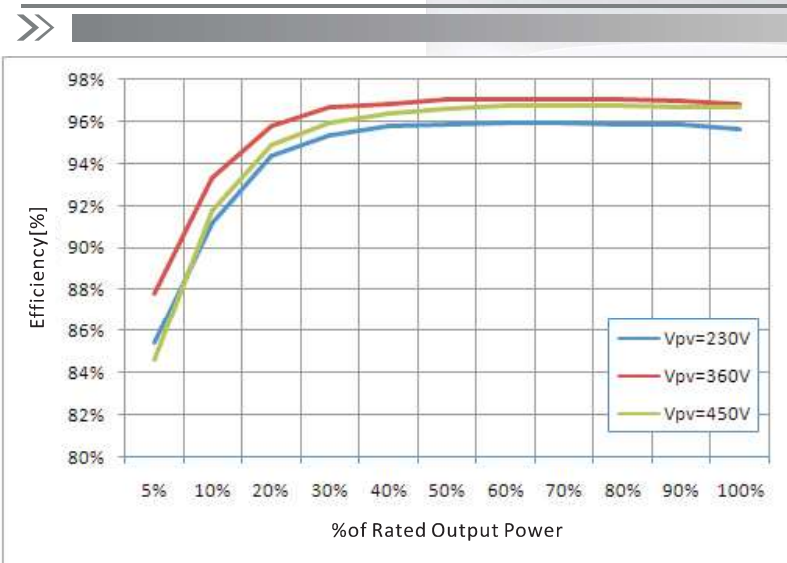


# MASS ENERGY INVERTER 1-Phase String Inverter

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

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Technical Data	SOFAR 3000TLM	SOFAR 3680TLM	SOFAR 4000TLM	SOFAR 4600TLM	SOFAR 5000TLM	SOFAR 6000TLM
<b>Input(DC)</b>						
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		
<b>Output(AC)</b>						
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					
<b>Performance</b>						
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%					
<b>Protection</b>						
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)					
<b>Communication</b>						
Power management unit	According to certification and request					
Standard Communication Mode	wifi, RS485, GPRS (optional), SD card					
Operation Data Storage	25 years					
<b>General data</b>						
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					