

# MASSENERGY INVERTER 1-Phase String Inverter

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



## High-yield

- Max 97.6% efficiency
- Real time precise MPPT algorithm for max harvest
- Wide input voltage operation range from 100V to 550V
- Two MPP.trackers for flexible pv panel installation

## Low maintenance cost

- Rust-free Aluminum covers
- Flexible monitoring solution
- Multi function relay can be configured to show various inverter information

## 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 / Dry Relay for more flexible configuration and system monitoring
- 4"LCD display

## Intelligent grid management

- Reactive power adjustable
- 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
<b>Input(DC)</b>					
Max.Input power	3100W	3800W	4160W	4800W	5200W
Max DC power for single MPPT	2000(200V-500V)	2400(200V-500V)	2600(200V-500V)	3000(200V-500V)	
Number of independent MPPT	2				
Number of DC inputs	1 for each MPPT				
Max. input voltage	600V				
Start-up input voltage	100V(+/-5v)				
Rated input voltage	360				
Operating input volt range	100V-550V				
MPPT voltage range	160V-500V	165V-500V		175V-500V	
Max. input MPPT current	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(@230V,50Hz)	3000VA	3680VA	4000VA	4600VA	5000VA
Max. AC power	3000VA	3680VA	4000VA	4600VA	5000VA
Nominal AC voltage	L/N/PE, 220,230,240				
Nominal AC voltage range	180V- 270V				
Grid frequency range	44~55Hz /54~66Hz				
Active power adjustable range	0~100%				
Max. output current	13A	16A	17.5A	20A	22A
THDi	<3%				
Power factor	1 ( adjustable +/-0.8)				
<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	>99.5%				
<b>Protection</b>					
DC reverse polarity protection	Yes				
DC switch	Option				
Protection class /overvoltage category	I/III				
Input/output SPD(II)	Option				
Safety protection	Anti islanding, RCMU, Ground fault monitoring				
Certification	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				
Operation Data Storage	25years				
<b>General data</b>					
Ambient temperature range	-25°C...+60°C				
Topology	Transformerless				
Degree of protection	IP65				
Allowable relative humidity range	0...95% no condensing				
Max.operating altitude	2000m				
Noise	<25dB				
Weight	18kg		19kg		
Cooling	Natural				
Dimension	344 * 478 * 170mm				
Warranty	10 years				