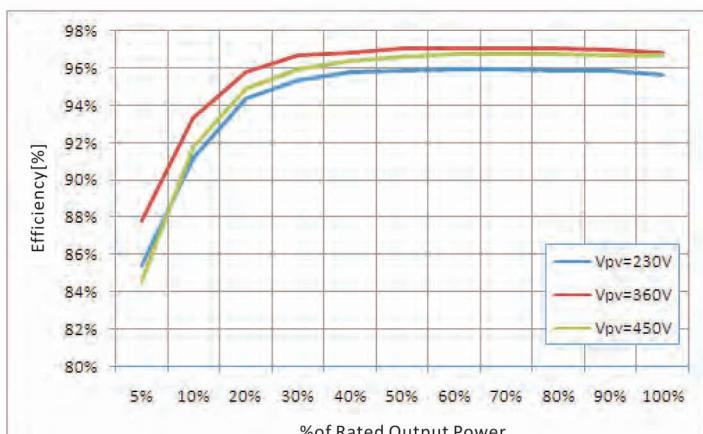


# 3-6KW Single Phase Inverter (Dual MPPT)

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
- Built in zero export function(optional)

## Low maintenance cost

- 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

## Single Phase Inverter

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



Datasheet		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), IEC62109-1/2 CE, CGC, AS4777, AS3100, VDE4105, C10-C11, G83/G59 (more available on request)				
SPD			MOV : Type III standard				
<b>Communication</b>							
Power management unit			According to certification and request				
Standard Communication Mode			WiFi , RS485 , GPRS , SD card (optional)				
Operation Data Storage			25 years				
<b>General data</b>							
Ambient temperature range			-30°C...+60°C(Above 45°C Derating)				
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			10 years				



AS4777 G83/2 G59/3

CQC, IEC, VDE-AR-N4105 / VDE-0126, EMC, C10/11, EN50438, RD1669, CEI 0-21

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