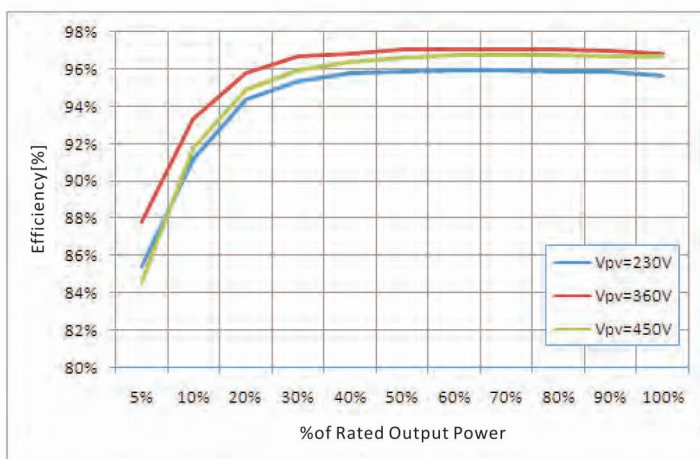


3-6KW Single Phase Inverter (Dual MPPT)

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

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), IEC62109-1/2 CE, CGC, AS4777, AS3100, VDE 4105, C10-C11, G83/G59 (more available on request)
SPD	MOV : Type III standard

Communication

Power management unit	According to certification and request
Standard Communication Mode	WiFi , RS485 , GPRS , SD card(optional)
Operation Data Storage	25 years

General data

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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