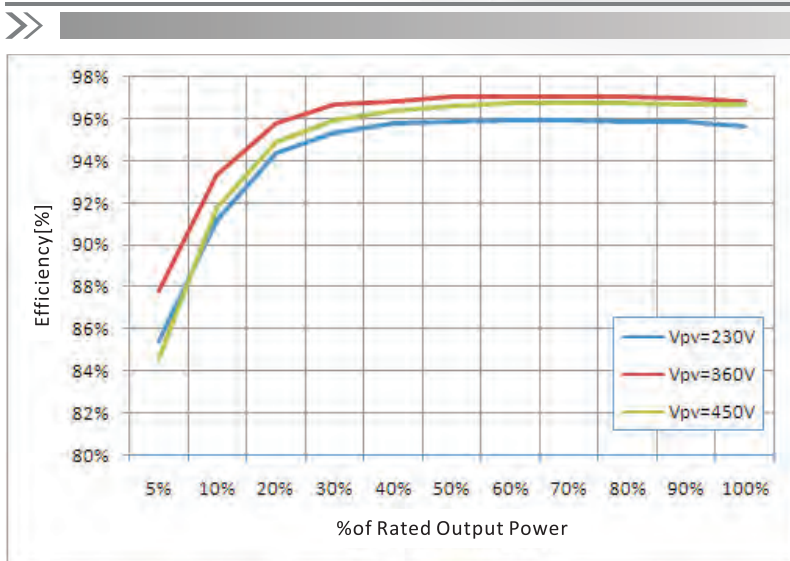


MASSENERGY INVERTER 1-Phase String Inverter

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



Efficiency Curve

High-yield

- Max 97.1% efficiency
- Real time precise MPPT algorithm for max harvest
- Wide input voltage operation range from 90V to 480V

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

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

MASSENERGY 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.DC Input Power	1100W	1600W	2200W	2700W	3000W
No.of MPPT/String per MPPT	1/1				
Max. input voltage	450V		500V		
Start-up input voltage	80V				
Rated input voltage	360V				
Operating voltage range	90-450 V		100-500 V		
MPPT voltage range	110-450 V	165-450 V	170-500 V	200-500 V	200-500 V
Max. input MPPT current	10A		13A	13.5A	15A
Output(AC)					
Rated Power	1000W	1500W	2000W	2500W	2800W
Max.AC Power	1000W	1500W	2000W	2500W	2800W
Max.AC Output Current	4.5A	7A	9.5A	11.5A	13A
Rated Grid Voltage	230V				
Grid Voltage Range	180~270 V(According to local standard)				
Rated Frequency	50/60Hz				
Grid frequency Range	44~55 /54~66 Hz(According to local standard)				
THDi	<3%				
Power factor Adjustable Range	0.8 overexcited ... 0.8 underexcited				
Grid connection	Single phase				
Efficiency					
Max. efficiency	97%		97.1%		97.2%
Euro efficiency	95.2%	95.9%	96.1%	96.4%	96.5%
MPPT adaptation efficiency	>99.5%				
Standard					
EMC	EN 61000-6-1,EN 61000-6-2,EN 61000-6-3,EN 61000-6-4				
Safety standards	IEC 62109-1,IEC 62109-2				
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				
Operation Data Storage	25years				
Relay	Yes				
I/O	Yes				
General Date					
DC Switch	optional				
Ambient temperature range	-25°C...+60°C				
Topology	Transformerless				
Cooling	Natural				
Allowable relative humidity range	0...95% no condensing				
Max.operating altitude	2000m				
Noise	<25db@1m				
Degree of Protection(per IEC 60529)	IP65				
Dimension	405*314*135 mm				
Weight	11kg		12kg		
Self-consumption at night	<1w				
Display	Graphic display				
Warranty	10 years				