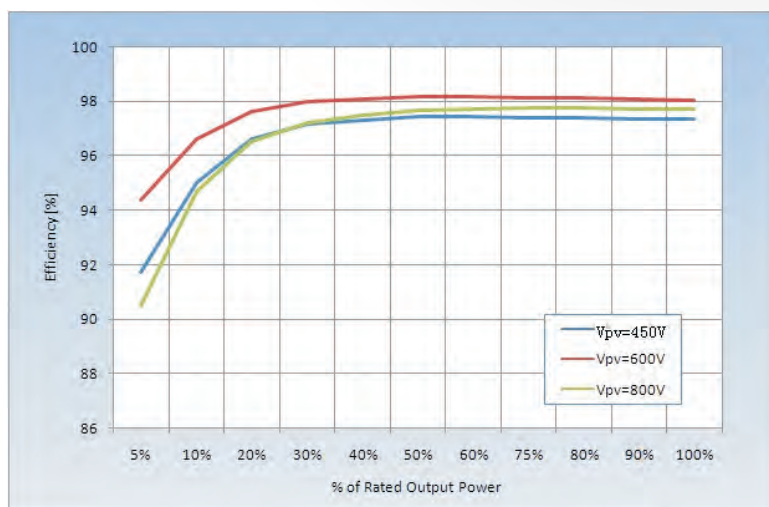


# MASSENERGY INVERTER 3-Phase String Inverter

10000TL/15000TL/17000TL/20000TL



Efficiency Curve

## High-yield

- Max 98.2% efficiency
- Real time precise MPPT algorithm for max harvest
- Wide input voltage operation range from 250V to 960V

## All in one, flexible and economical system solution

- DC switch (option)
- DC surge protection device (option)
- AC surge protection device (option)
- Built-in PV Combiner (option)
- Power management unit
- Optimum selection for big PV plants, commercial buildings...

## 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

- LVRT support
- Reactive power adjustable
- Self power reducer when over frequency
- Remote active/reactive power limit control

# MASSENERGY INVERTER 3-Phase String Inverter

» 10000TL / 15000TL / 17000TL / 20000TL

Technical Data	SOFAR 10000TL	SOFAR 15000TL	SOFAR 17000TL	SOFAR 20000TL
<b>Input(DC)</b>				
Max.Input power	10400W	15600W	17700W	20800W
Max DC power for single MPPT	6750(450V-850V)	10500(500V-850V)	10500(500V-850V)	12000(500V-850V)
Number of independent MPPT	2			
Number of DC inputs	2 for each MPPT		3 for each MPPT	
Max. input voltage	1000V			
Start-up input voltage	350V (+/-1V)			
Rated input voltage	600			
Operating input volt range	250V-960V			
MPPT voltage range	350V-850V	370V-850V	420V-850V	430V-850V
Max. input MPPT current	15A/15A	21A/21A	21A/21A	24A/24A
Input short circuit current for each MPPT	20A	27A	27A	30A
<b>Output(AC)</b>				
Rated power(@230V,50Hz)	10000VA	15000VA	17000VA	20000VA
Max. AC power	10000VA	15000VA	17000VA	20000VA
Nominal AC voltage	3/N/PE,220/380 3/N/PE,230/400 3/N/PE,240/415			
Nominal AC voltage range	184V-276V			
Grid frequency range	50Hz,+/-5Hz			
Active power adjustable range	0~100%			
Max. output current	15A	22A	25A	29A
THDi	<3%			
Power factor	1(Adjustable +/-0.8)			
<b>Performance</b>				
Max efficiency	98.2%			
Weighted eff. (EU/CEC)	97.6%/97.8%	97.9%/98%	97.9%/98%	98%/98.1%
Self-consumption at night	<1W			
Feed-in start power	45W			
MPPT efficiency	>99.5%			
<b>Protection</b>				
DC reverse polarity protection	Yes			
DC/AC switch	Optional			
Protection class /overvoltage category	I/III			
Input/output SPD(II)	Optional			
Safety protection	Anti islanding, RCMU, Ground fault monitoring			
Certification	CE, CGC, AS4777,AS3100,VDE 4105,C10-C11,G59 (more available on request)			
<b>Communication</b>				
Power management unit	According to certification and request			
Standard Communication Mode	RS485, Wifi(option), Multi-function relay			
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	<45dB			
Weight	45kg	45kg	48kg	48kg
Cooling	Natural	Fan	Fan	Fan
Dimension	707*492*240mm			
Warranty	10 years			