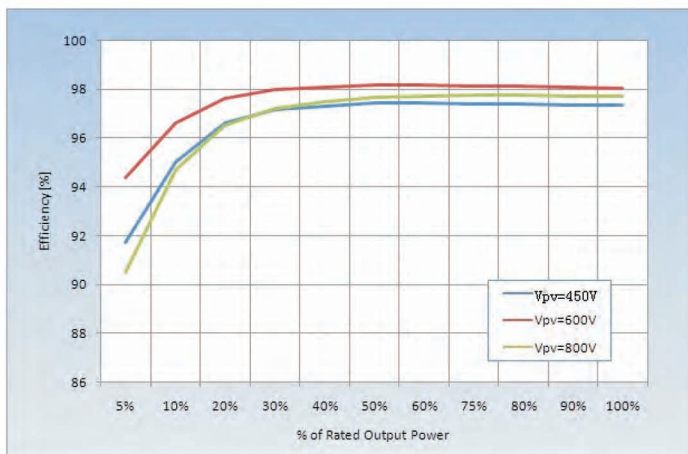


10-20KW Three Phase Inverter (Dual MPPT)

SOFAR 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
- DC surge protection device (option)
- AC surge protection device (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

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

Mass Energy Inverter Three Phase Inverter

SOFAR 10000TL/15000TL/17000TL/20000TL



Datasheet

SOFAR
10000TL

SOFAR
15000TL

SOFAR
17000TL

SOFAR
20000TL

Input(DC)

Max.Input power	11000W	16500W	18700W	22000W
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			
Max. input voltage	1000V			
Start-up input voltage	250V			
Rated input voltage	600V			
MPPT voltage range	250V-960V			
Full load DC voltage range	350V-850V	370V-850V	420V-850V	430V-850V
Max. input current per MPPT	15A/15A	21A/21A	21A/21A	24A/24A
Input short circuit current for each MPPT	20A	27A	27A	30A

Output(AC)

Rated power(@230V,50Hz)	10000W	15000W	17000W	20000W
Max. AC power	10000VA	15000VA	17000VA	20000VA
Max. output current	15A	22A	25A	29A
Nominal Grid Voltage	3/N/PE,220/380 or 3/N/PE,240/415 or 3/N/PE,230/400			
Grid Voltage Range	180V ~ 270V			
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)			

Performance

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	>99.9%			

Protection

DC reverse polarity protection	Yes
DC switch	Yes
Protection class /overvoltage category	I/III
Input/output SPD(II)	Optional
Safety protection	Anti islanding, RCMU, Ground fault monitoring
Certification	IEC 62116, IEC 61727, IEC 61683, IEC 60068(1, 2, 14, 30), IEC 62109-1/2 CE, CGC, AS4777, AS3100, VDE 4105, C10-C11, G59(more available on request)
SPD	MOV : Type III standard / Type II optional
ARPC	Anti Reverse Power Controller(optional)

Communication

Power management unit	According to certification and request
Standard Communication Mode	RS485, Wifi (optional), GPRS(optional), SD card, Multi-function relay
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	<45dB			
Weight	45kg	45kg	48kg	48kg
Cooling	Natural	Natural	Natural	Natural
Dimension	707*492*240mm			
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