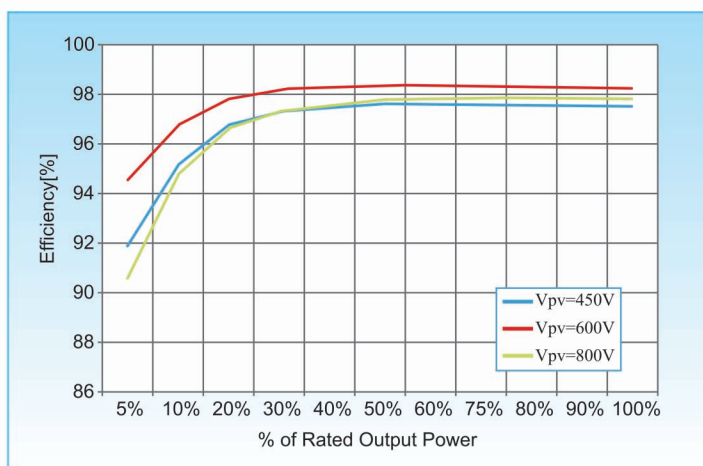


20-33KW Three Phase Inverter (Dual MPPT)

SOFAR (20000TL/25000TL/30000TL/33000TL)-G2



Efficiency Curve

High-yield

- Max 98.6% efficiency
- Real time precise MPPT algorithm for max harvest
- Wide input voltage operation range from 230V to 960V

All in one, flexible and economical system solution

- DC switch
- Built-in PV Combiner
- Power management unit
- Optimum selection for big PV plants, commercial buildings...

Low maintenance cost

- 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

20000TL-G2/25000TL-G2/30000TL/33000TL-G2 (New upgrade)



Datasheet

SOFAR
20000TL-G2

SOFAR
25000TL-G2

SOFAR
30000TL-G2

SOFAR
33000TL-G2

Input(DC)

Max.Input power	26000W	32500W	39000W	42900W
Max DC power for single MPPT	13000W	16000W	18000W	20000W
Number of independent MPPT	2			
Number of DC inputs	2 for each MPPT	3 for each MPPT		
Max. input voltage	1100V			
Start-up input voltage	250V			
Rated input voltage	620V	620V	620V	620V
MPPT voltage range	230V-960V			
Full load DC voltage range	480V-850V	460V-850V	520V-850V	580V-850V
Max. input MPPT current	24A/24A	28A/28A	30A/30A	30A/30A

Output(AC)

Rated power(@230V,50Hz)	20000W	25000W	30000W	33000W
Max. AC power	22000VA	27500VA	33000VA	36300VA
Max. output current	32A	40A	48A	53A
Nominal Grid Voltage	3/N/PE, 230/400Vac			
Grid Voltage Range	310Vac - 480Vac			
Nominal Frequency	50/60Hz			
Grid frequency range	45~55Hz/ 55~65Hz(According to local standard)			
Active power adjustable range	0~100%			
THDi	<3%			
Power factor	1(Adjustable +/-0.8)			

Performance

Max efficiency	98.2%	98.4%	98.4%	98.6%
European weighted efficiency	98.0%	98.2%	98.2%	98.2%
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
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, ZVRT, AS4777, AS3100, VDE4105, C10-C11, G59(more available on request)
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	<30dB	<45dB	<45dB	<45dB
Weight	37kg			
Cooling	Natural	Fan	Fan	Fan
Dimension	666*512*254mm			
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