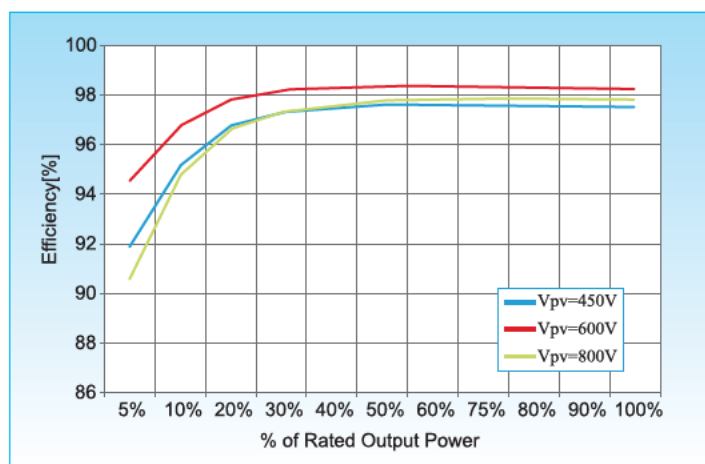


20-33KW Three Phase Inverter (Dual MPPT)

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-G2/ 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	-25°C...+60°C			
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	5 years/7 years/10 years			

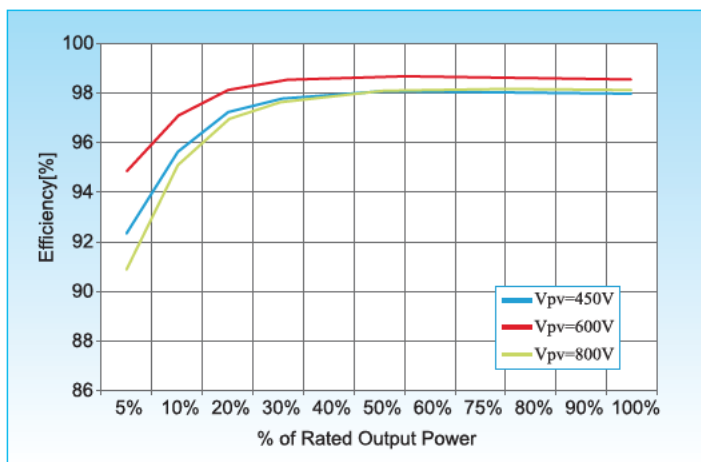


AS4777 G83/2 G59/3

CQC, IEC, VDE-AR-N4105 / VDE-0126, EMC, C10/11, EN50438, RD1669, CEI 0-21

30-40KW Three Phase Inverter (Dual MPPT)

SOFAR 30000TL/33000TL/36000TL/40000TL



Efficiency Curve

High-yield

- Max 98.7% 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)
- Built-in PV Combiner
- 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



30000TL/33000TL/36000TL/40000TL

Datasheet

SOFAR
30000TL

SOFAR
33000TL

SOFAR
36000TL

SOFAR
40000TL

Input(DC)

Max.Input power	30720W	34000W	40800W	40800W
Max DC power for single MPPT	15360W(480V-800V)	17000W(480V-800V)	20400W(500V-800V)	20400W(570V-800V)
Number of independent MPPT	2			
Number of DC inputs	4 for each MPPT			
Max. input voltage	1000V			
Start-up input voltage	250V			
Rated input voltage	600V	600V	600V	700V
MPPT voltage range	250V-960V			
Full load DC voltage range	480V-800V	480V-800V	500V-800V	570V-800V
Max. input MPPT current	64A(32A/32A)	70A(35A/35A)	76A(38A/38A)	70A(35A/35A)
Max. input current per string	12A			

Output(AC)

Rated power(@230V,50Hz)	30000W	33000W	36000W	40000W
Max. AC power	30000VA	33000VA	36000VA	40000VA
Max. output current	43A	48A	54A	48A
Nominal Grid Voltage	3/N/PE or 3/PE, 230/400Vac			3/N/PE or 3/PE, 277/480Vac
Grid Voltage Range	310Vac - 480Vac			422Vac - 528Vac
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	98.5%	98.5%	98.5%	98.7%
European weighted efficiency	98.2%	98.2%	98.2%	98.4%
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), IEC62109-1/2 CE, CGC, ZVRT, AS4777, AS3100, VDE4105, 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	-25°C...+60°C			
Topology	Transformerless			
Degree of protection	IP65			
Allowable relative humidity range	0...100% no condensing			
Max.operating altitude	3000m			
Noise	<30dB	<45dB	<45dB	<45dB
Weight	50kg			
Cooling	Natural	Fan	Fan	Fan
Dimension	767*564*290.5mm			
Display	LCD display			
Warranty	5 years/7 years/10 years			

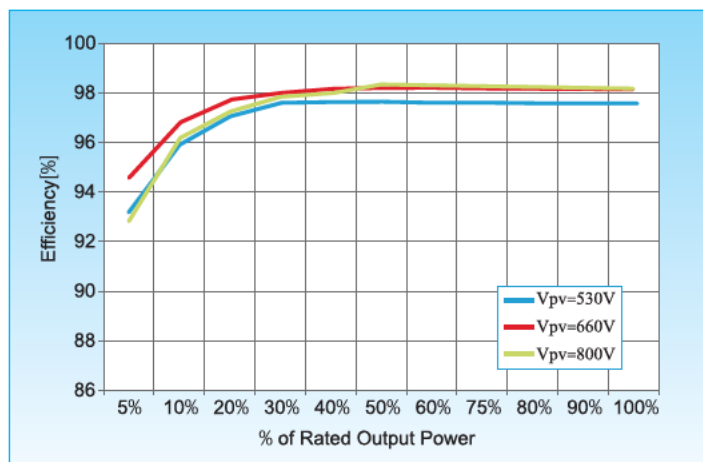


AS4777 G83/2 G59/3

CQC, IEC, VDE-AR-N4105 / VDE-0126, EMC, C10/11, EN50438, RD1669, CEI 0-21

50-70KW Three Phase Inverter (Three MPPT)

SOFAR 50000TL/60000TL/70000TL-HV



Efficiency Curve

High-yield

- Max 98.6% 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
- AC surge protection device (option)
- Built-in PV Combiner
- 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



50000TL / 60000TL / 70000TL-HV

Datasheet

SOFAR
50000TL

SOFAR
60000TL

SOFAR
70000TL-HV

Input(DC)

Max.Input power	55000W	66000W	77000W
Max DC power for single MPPT	22000W(500V 800V)	22000W(530V 800V)	26000W(660V 800V)
Number of independent MPPT	3		
Number of DC inputs	4/3/3	4/4/4	
Max. input voltage	1000V		
Start-up input voltage	250V		
Rated input voltage	600V	600V	700V
MPPT voltage range	250V-960V		
Full load DC voltage range	500V 800V	530V 800V	660V 800V
Max. input MPPT current	40A/30A/30A	40A/40A/40A	40A/40A/40A
Max. input current per string	12A		

Output(AC)

Rated power(@230V,50Hz)	50000W	60000W	70000W
Max. AC power	50000VA	60000VA	70000VA
Max. output current	80A	90A	90A
Nominal Grid Voltage	3/N/PE,3/PE,230/400Vac	3/N/PE,3/PE,230/400Vac	3/N/PE, 277/480Vac OR 3/PE, 277/480Vac
Grid Voltage Range	180Vac 270Vac	180Vac 270Vac	245Vac 305Vac
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	98.5%	98.6%	98.6%
European weighted efficiency	98.3%	98.4%	98.4%
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)	PV: type II standard, AC: type II optional
Safety protection	Anti islanding, RCMU, Ground fault monitoring
Certification	IEC 62116, IEC 61727, IEC 61683, IEC 61000, IEC 60068(1,2,14,30), IEC 62109 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), SD card, Multi function relay
Operation Data Storage	25 years

General data

Ambient temperature range	-25°C...+60°C
Topology	Transformerless
Degree of protection	IP65
Allowable relative humidity range	0...100% no condensing
Max.operating altitude	4000m
Noise	<60dB
Weight	68kg 70kg
Cooling	Fan
Dimension	737*713*297mm
Display	LCD display
Warranty	5 years / 7 years / 10 years



AS4777 G83/2 G59/3

CQC, IEC, VDE-AR-N4105 / VDE-0126, EMC, C10/11, EN50438, RD1669, CEI 0-21