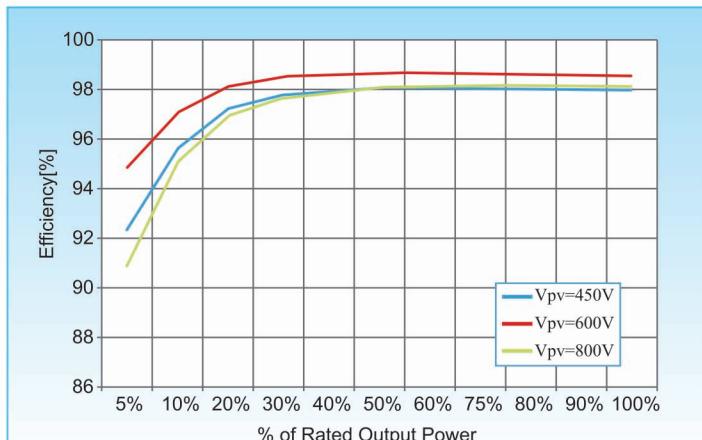


30-40KW Three Phase Inverter (Dual MPPT)

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



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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	-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	3000m			
Noise	<30dB	<45dB	<45dB	<45dB
Weight	50kg			
Cooling	Natural	Fan	Fan	Fan
Dimension	767*564*290.5mm			
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