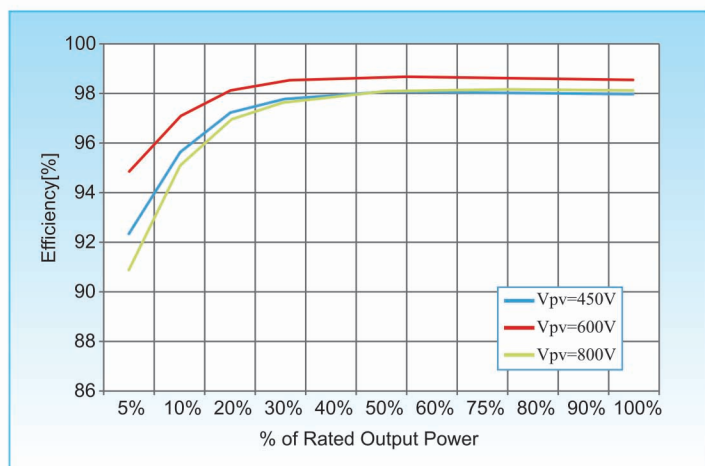


30-40KW Three Phase Inverter (Dual MPPT)

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), IEC 62109-1/2, 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