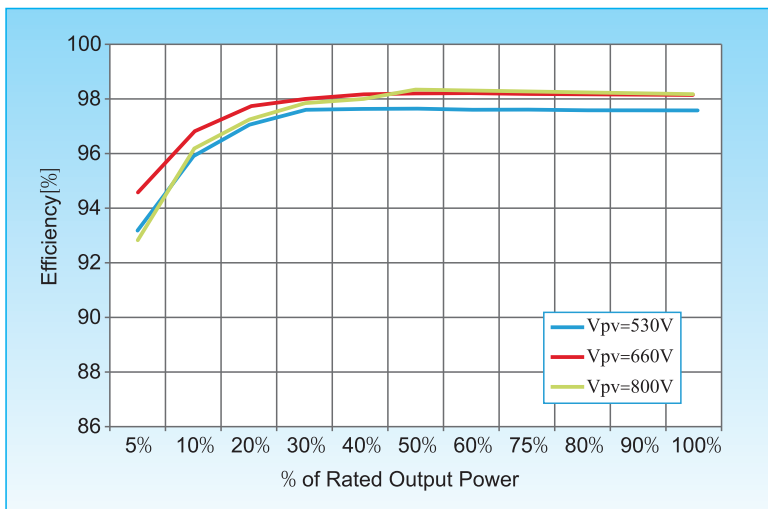


MASS ENERGY INVERTER 3-Phase String Inverter

50000TL/60000TL/70000TL



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 3-Phase String Inverter

» 50000TL/60000TL/70000TL

| Technical Data | SOFAR 50000TL | SOFAR 60000TL | SOFAR 70000TL |
|--|---|------------------------|--|
| 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 | 350V | | |
| 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) | 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) | | |
| 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 | | |