

AE 3TL 23-MV

For medium voltage applications



- \\ High return on investment
- \\ Low transport costs
- \\ Durable construction

The AE 3TL 23 kW with 460 VAC is a three-phase string inverter for large systems. We revisited the successful concept of the AE 3TL 8–20 kW range and adapted it to the high demands placed on inverters for medium voltage grids. The result is an extremely robust string inverter which can be used to construct large systems.

The AE 3TL 23-MV includes everything so that you are not confronted with consequential costs and your yields always remain high: Convection cooling, broad MPP range, various interfaces, plug&play, data logger. Although we have increased its output to 23 kW and its efficiency has improved to up to 98.3 %, it still weights just 41.5 kilograms. High performance can be so compact!

TECHNICAL DATA

AE 3TL 23-MV

Art. no. 806R023

DC DATA

Recommended max. PV power, kWp	27,6
MPPT range, V	575 ... 850
DC start voltage, V	350
Max. voltage DC, V	1000
Max. current DC, A	41
MPP trackers	1
Number of DC inputs	6 x Phoenix Sunclix®
DC disconnection switch	Yes

AC DATA

AC nominal power, kW	23
Max. apparent power, kVA	23
AC grid connection	L1, L2, L3, N, PE
Nominal power factor / range	1 / 0,8i ... 0,8c
Nominal voltage AC, V	460
Voltage range AC, V	368 ... 529
Nominal frequency / frequency range, Hz	50, 60 / 45 ... 65
Max. current AC, A	3 x 29,2
Max. THD, %	1,8
Max. efficiency, %	98,3
European efficiency, %	98,1
Feed-in starting at, W	50
Internal consumption in night operation, W	< 0,5

CHARACTERISTICS

Cooling	Natural convection
Ambient temperature, °C	-25 ... +55
Relative ambient humidity, %	0 ... 100
Site altitude	4000
Noise, dBA	< 45
Internal overvoltage protection (EN 61643-11)	Type 3
Protection class (IEC 62103)	SKL I
Overvoltage category (EN 60664-1)	DC: II, AC: III
Environmental classification (IEC 721-3-4)	4K4H
Certification	Current certificates can be found on our website
SZS or grid protection	Acc. to VDE 0126-1-1

GENERAL DATA

Interfaces	Ethernet, RS485, temperature and irradiation sensor
Type of protection (IEC 60529)	IP65
Dimensions B x H x T, mm	535 x 601 x 277
Weight, kg	41,5

Subject to modification. Technical specifications are subject to change without notice.

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