

AE 3TL JP

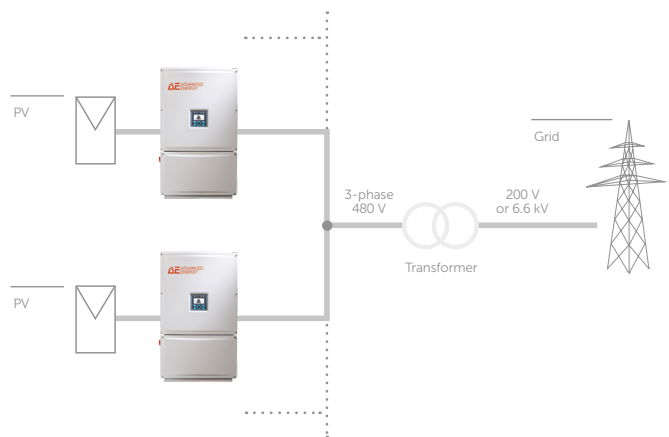


- ▮ The AE 3TL JP complies with Japanese Grid Code. It is perfectly suited for smaller rooftop systems or distributed large scale PV plants.

Transformerless, compact and extremely powerful. Rated at 20 and 24 kW AC - available with max. 500 V and 1000 V DC input voltage. The AE 3TL string inverter series is known for their high efficiency, reliability and easy handling. Now this product is also available as a model to comply with the Japanese Grid Code.

The string inverters with 20 and 24 kW are the perfect match for any commercial and utility PV plant size, like rooftop systems, parking shade structures and large ground mounted systems. Using 480 V standard grid voltage, these inverters can be connected to low voltage or high voltage grid using transformers. The conversion efficiency reaches as much as 98% to boost the energy yield in any PV plant.

Integrated into the system are highly precise MPP tracking from REFUSol and a data logger for direct connection to the online monitoring system. A graphical display, Ethernet connection and RS485 interface simplify commissioning and system monitoring.



TECHNICAL DATA	AE 3TL 020K-JP (1000V)	AE 3TL 024K-JP (1000V)	AE 3TL 020K-JP (500V)	AE 3TL 024K-JP (500V)
Art. no.	862R020	862R024	863R020	863R024
DC DATA				
Max. recommended PV power, kW	24	28.8	24	28.8
MPPT range, V	570 ... 900	570 ... 900	270 ... 450	285 ... 450
DC start voltage, V	200	200	200	200
Max. DC voltage, V	1000	1000	500	500
Max. DC current, A	37.5	44	2 x 37.5	2 x 44
Max. Short circuit current of Panels, A	100	100	2 x 100	2 x 100
MPP tracker	1	1	1	1
No. DC inputs	6	6	12	12
Integrated DC circuit breaker	YES	YES	YES	YES
Type DC inputs	Sunclix	Sunclix	Sunclix	Sunclix
Max. ISC current per DC input, A	20	20	20	20
AC DATA				
AC Nominal power, kW	20	24	20	24
Max. apparent power, kVA	20	20	20	24
AC grid connection / Feed-in phases	L1, L2, L3, N, PE	L1, L2, L3, N, PE	L1, L2, L3, N, PE	L1, L2, L3, N, PE
Nominal Power Factor / Range	1 / 0.9i ... 0.9c	1 / 0.9i ... 0.9c	1 / 0.9i ... 0.9c	1 / 0.9i ... 0.9c
Nominal voltage AC, V	480	480	480	480
Voltage range AC, V	384 ... 528	384 ... 528	384 ... 528	384 ... 528
Nominal Frequency / Frequency Range, Hz	50, 60 / 45 ... 65	50, 60 / 45 ... 65	50, 60 / 45 ... 65	50, 60 / 45 ... 65
Max. AC current, A	3 x 29.2	3 x 29.2	3 x 29.2	3 x 29.2
Max. THD, %	3	3	3	3
Max. Efficiency, %	98.0	98.0	97.7	97.7
Max. european Efficiency, %	97.7	97.7	97.4	97.4
Max. efficiency, %	50	50	50	50
European efficiency, %	97.3	97.4	97.5	97.8
Feed-in from, W	50	50	50	50
Self consumption night, W	< 0.5	< 0.5	< 0.5	< 0.5
AC circuit breaker	Integrated	Integrated	Integrated	Integrated
PROTECTION, AMBIENT CONDITIONS				
Cooling	Natural convection	Natural convection	Natural convection	Natural convection
Ambient temperature, °C	-25 ... +55	-25 ... +55	-25 ... +55	-25 ... +55
Relative ambient humidity, %	0 ... 100	0 ... 100	0 ... 100	0 ... 100
Elevation (m above sea level)	4000*	4000*	4000*	4000*
Noise level, dBA	< 45	< 45	< 45	< 45
Internal overvoltage protection (EN 61643-11)	Type 3	Type 3	Type 3	Type 3
Protection Class (IEC 62103)	SK I	SK I	SK I	SK I
Overvoltage Category (EN 60664-1)	DC: II, AC: III	DC: II, AC: III	DC: II, AC: III	DC: II, AC: III
Environment classification (IEC 721-3-4)	4K4H	4K4H	4K4H	4K4H
Pollution Degree (IEC 62109-6-3)	3	3	3	3
Certification	Test documents according to JET			
SZS or grid protection	Gate Block / redundant Grid Relay			
GENERAL DATA				
Interfaces	Ethernet, RS485, isolation and irradiation sensor			
Protection class (IEC 60529)	IP65	IP65	IP65	IP65
Dimensions W x H x D, mm	535 x 601 x 277	535 x 601 x 277	535 x 601 x 277	535 x 601 x 277
Weight, kg	49.8	49.8	49.8	49.8

*Observe derating of the DC voltage.

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