

String-Transformerless

AJ-8/10/12KTLC



FEATURES



Flexible design

Multi-communication interface: RS485, GPRS(optional), Wifi (optional)
DC breaker, easy to maintain and safe to use
Digital DSP control technology



Efficient conversion

Transformerless, max. efficiency is up to 98.7%; Euro. efficiency is up to 98.2%
Total current THD <2%
Three-level SVPWM control technology, increase DC voltage utilization



Grid friendly

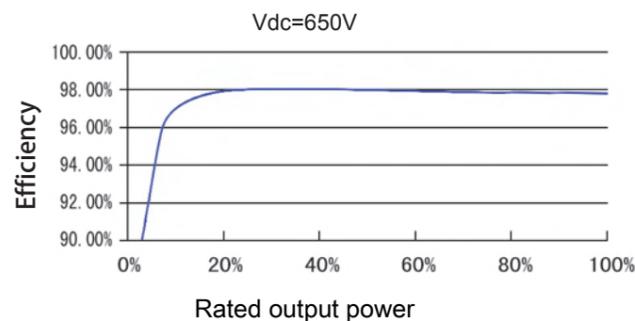
Adjustable reactive power, power factor from 0.8 leading to 0.8 lagging
Active and passive anti-islanding protection



Excellent qualities

CQC Golden Sun Certification, TUV Certification, SAA Certification, CE Certification

EFFICIENCY CURVE



TECHNICAL DATA

Model Name	8KTLC	10KTLC	12KTLC
Input			
Max. DC input power	10400W	13000W	15600W
Max. DC input voltage	1100V		
Max. DC input current	15/15A		
MPPT voltage range	180-1000V		
Recommended MPP operating voltage	650V		
No.of MPPT	2		
Max. no. of strings per MPPT	1		
Output			
Rated output power	8000W	10000W	12000W
Max. output power	8.8kVA	11kVA	13.2kVA
Max. output current	13.3A	16.7A	20A
Rated grid voltage	400V		
Grid voltage range	310-480Vac		
Rated grid frequency	50Hz/60Hz		
Grid frequency range	45~55Hz/55~65Hz		
THD	<2% (Under the rated power)		
Power factor	>0.99 (Under the rated power) / Adjustable range: 0.8 leading~0.8 lagging		
DC current injection	<0.5% (Under the rated power)		
System data			
Max. efficiency	98.5%	98.6%	98.7%
Euro. efficiency	98%	98.2%	98.1%
Humidity range	0~100%, non-condensing		
Cooling type	Intelligent air cooling		
Temperature range	-25 C ~60 C		
Power consumption at night	<1W		
Max. working altitude	4000m		
Display	LED indication / LCD display (Optional)		
Communication interface	Wifi/RS485/GPRS		
Protection			
DC reverse-polarity protection	Yes		
Short circuit protection	Yes		
Output over current protection	Yes		
Output over voltage protection	Yes		
Insulation resistance monitoring	Yes		
Residual current detection	Yes		
Surge protection	Yes		
Grid monitoring	Yes		
Islanding protection	Yes		
Temperature protection	Yes		
Integrated DC switch	Yes		
Mechanical data			
Dimensions (WxHxD)	427x510x204mm		
Weight	15kg		
Protection class	IP66		
Standard			
Grid-connected standard	NB/T 32004-2018; IEC61727		
Safety standard	NB/T 32004-2018; IEC 62109-1/2		
Electromagnetic compatibility	IEC61000-6-2/4		