

String-Transformerless

AJ-30/33/36/40KTLC



FEATURES



Flexible design

Multi-communication interface: RS485, GPRS(optional),Wifi (optional)
DC breaker, easy to maintain and safe to use
Integrated functions of combiner box& DC lightning protection, reduce system cost for users



Efficient conversion

Transformerless, max. efficiency is up to 98.8%; Euro. efficiency is up to 98.3%
Total current THD <2%
Three-level SVPWM control technology, increase DC voltage utilization



Grid friendly

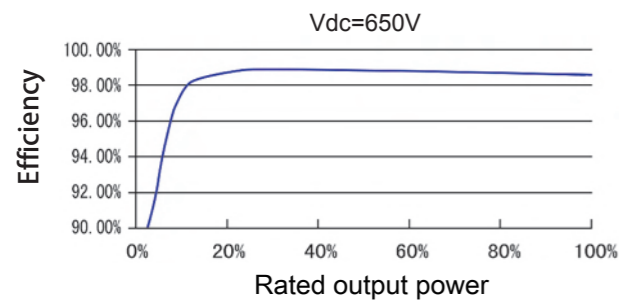
LVRT function
Adjustable reactive power, power factor from 0.8 leading to 0.8 lagging
Active and passive anti-islanding protection



Excellent qualities

CQC Gold Sun Certification, TUV Certification, SAA Certification, CE Certification

EFFICIENCY CURVE



TECHNICAL DATA

Model Name	30KTLC	33KTLC	36KTLC	40KTLC
Input				
Max. DC input power	36000W	39600W	43200W	48000W
Max. DC input voltage	1100V			
MPPT voltage range	250~1000V			
Max. DC input current	45/30A	45/30A	45/45A	45/45A
Recommended MPP operating voltage	650V			
No. of MPPT	2			
Max. no. of strings per MPPT	3/2		3	4
Output				
Rated output power	30000W	33000W	36000W	40000W
Max. output power	33KVA	36.3KVA	39.6KVA	44KVA
Max. output current	48A	53A	56A	63A
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)/0.8 leading ~ 0.8 lagging			
DC current injection	< 0.5% (Under the rated power)			
System data				
Max. efficiency	98.7%	98.7%	98.8%	98.8%
Euro. efficiency	98.1%	98.2%	98.2%	98.3%
Humidity range	0-100% non-condensing			
Cooling type	Intelligent forced air cooling			
Temperature range	-25~+60℃			
Power consumption at night	< 1W			
Max. working altitude	4000m			
Display	LED indicator /LCD displayer (optional)			
Communication interface	Wifi/RS485/GPRS(optional)			
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)	517x516x214mm			
Weight	34Kg			
Protection class	IP66 (outdoor)			
Standard				
Grid-connected standard	NB/T32004-2018; IEC61727			
Safety standard	NB/T32004-2018; IEC 62109-1/2			
Electromagnetic compatibility	IEC 61000-6-2/4			