

# String-Transformerless

## DH-100/110KTLC



### 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 98.7%;  
Euro. efficiency is up to 98.3%  
Total current THD <2%  
Three-level SVPWM control technology, increase DC voltage utilization



#### Grid friendly

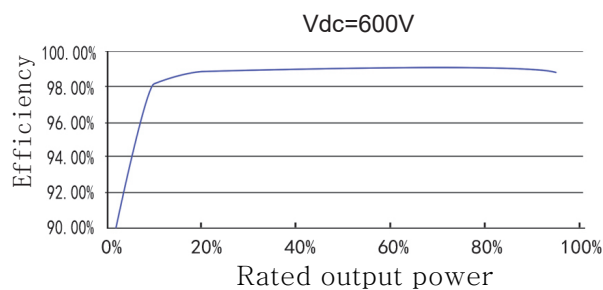
LVRT HVRT function  
Adjustable reactive power, power factor from 0.8 leading to 0.8 lagging  
Active and passive anti-islanding protection  
Continuously adjustable active power(0-100%)function



#### Excellent qualities

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

### EFFICIENCY CURVE



# TECHNICAL DATA

Model Name	DH100KTLC	DH110KTLC
<b>Input</b>		
Max. DC input power	150KW	165KW
Max. DC input voltage	1100V	
Max. DC input current	30A*10	30A*10
MPPT voltage range	200~1000V	
Recommended MPP operating voltage	600V	
No. of MPPT	10	10
Max. no. of strings per MPPT	2	
<b>Output</b>		
Rated output power	100KW	110KW
Max. output power	110KVA	121KVA
Max. output current	158.8A	174.6A
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(rated power) /0.8 leading ~ 0.8 lagging	
DC current injection	< 0.5% (Under the rated power)	
<b>System data</b>		
Max. efficiency	98.7%	98.7%
Euro. efficiency	98.1%	98.1%
Humidity range	0-100% non-condensing	
Cooling type	Intelligent forced air cooling	
Temperature range	-25~+60°C	
Power consumption at night	< 1W	
Max. working altitude	4000m	
Display	LED/LCD(optional)	
Communication interface	RS485/Wifi/GPRS(optional)	
<b>Protection</b>		
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	
<b>Mechanical data</b>		
Dimensions (WxHxD)	1050x620x333mm	
Weight	89Kg	
Protection class	IP66	
<b>Standard</b>		
Grid-connected standard	NB/T32004-2018; GB/T19964-2012	
Safety standard	NB/T32004-2018	
Electromagnetic compatibility	IEC 61000-6-2/4	

