

WSP-TLC

THREE-PHASE ON-GRID INVERTER

50/60KW



FEATURES

Flexible Design

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

Efficient Conversion

- Transformerless, max. efficiency is up to 99%
- Euro. efficiency is up to 98.5%
- 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

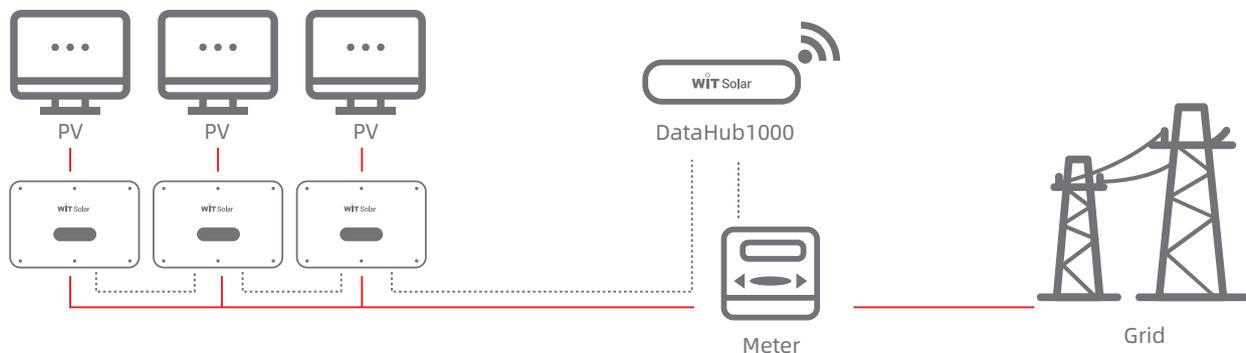
- CQC Gold Sun Certification
- TUV Certification, SAA
- Certification.CE Certification



• BAUART
• GEPRÜFT
• TYPE
• APPROVED



SOLUTION DESIGN



TECHNICAL DATA

Model Name	50KTLC	60KTLC
Input		
Max. DC input power	65000W	78000W
Max. DC input voltage	1100V	
Max. DC input current	45/45/45A	
MPPT voltage range	250-1100V	
Recommended MPPT operating voltage	650V	740V
Starting voltage	300V	
No.Of MPPT	3	
Max. no. of strings per MPPT	4	4
Output		
Rated output power	50000W	60000W
Max. output power	55kVA	66kVA
Max. output current	80A	96A
Rated grid voltage	400V	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	98.7%	98.9%
Euro. efficiency	98.3%	98.5%
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 (optional:LCD)	
Communication interface	WIFI (optional:RS485 or GPRS)	
Protection		
DC reverse-polarity protection	Yes	
Short circuit protection	Yes	
Output over currentprotection	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 (W*H*D)	282*681*660mm	
Weight	47kg	
Protection class	IP66	
Standard		
Safety standard/EMC standard	NB/T32004-2018,IEC62109,IEC61000,IS16169 & IS16221(BIS)	
Grid-connected standard	IEC61727,EN50549-1,VDE-4105,NRS-097-2-1,OVE-Richtinje R25, UNE217001/2. Ordinance No.140	
Other standard	IEC61683,IEC62116.EN50530.IEC60068	