

On-grid inverter

ASP-1.5/2.0/2.7/3.0/3.3/3.6/4.0KTLS



TLS series

single-phase & single-MPPT

FEATURES



Flexible design

Small size, light weight, support manual installation, reduce user installation and maintenance cost
Multi-communication interface: RS485, GPRS(optional), Wifi (optional)
DC breaker, easy to maintain and safe to use
Convection without fan
Digital DSP control technology



Efficient conversion

Transformerless,max. efficiency is up to 98.1%;
Euro. efficiency is up to 97.6%
Total current THD <2%



Grid friendly

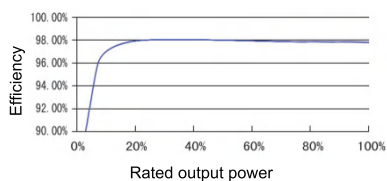
Active and passive anti-islanding protection
Continuously adjustable active power (0-100%) function



Excellent qualities

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

EFFICIENCY CURVE

V_{dc}=360V

TECHNICAL DATA

Model Name	1.5KTLS	2.0KTLS	2.7KTLS	3.0KTLS	3.3KTLS	3.6KTLS	4.0KTLS
Input							
Max. DC input power	3000W	4000W	5400W	6000W	6600W	7200W	8000W
Max. DC input voltage	550V						
Max. DC input current	20A						
MPPT voltage range	40-550V						
Recommended MPP operating voltage	360V						
No.of MPPT	1						
Max. no. of strings per MPPT	1						

Output							
Rated output power	1500W	2000W	2700W	3000W	3300W	3600W	4000W
Max. output power	1650VA	2200VA	2970VA	3300VA	3630VA	3960VA	4400VA
Max. output current	7.5A	10A	13.5A	15A	15A	16.5A	18.5A
Rated grid voltage	220/230/240V						
Grid voltage range	90-290Vac						
Rated grid frequency	50Hz/60Hz						
Grid frequency range	45-55Hz/55-65Hz						
THD	< 3% (Under rated power)						
Power factor	> 0.99 (Under rated power) / Adjustable range: 0.8 leading-0.8 lagging						
DC current injection	< 0.5% (Under rated power)						

System data							
Max. efficiency	98.00%						
Euro. efficiency	97.00%						
Humidity range	0-100% non-condensing						
Cooling type	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 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	Optional						

Mechanical data							
Dimensions (W*H*D)	295*210*120mm						
Weight	5.5kg						
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-Richtlinie R25, UNE217001/2, Ordinance No.140						
Other standard	IEC61683, IEC62116, EN50530, IEC60068						