Single-Phase On-grid String Inverter
AS1500TL / AS2000TL

Key Features

High Efficiency

● High-efficiency inverter topology ensures annual power generation

● Advanced control algorithms and high adaptation ability to the grid, improving the stability of power generation system

Safety and Reliability

● IP65 for outdoor application

● Integrated AC/DC full lightning protection

● Aluminum alloy die-casting integrated chassis, ensure 25 years full life circle running
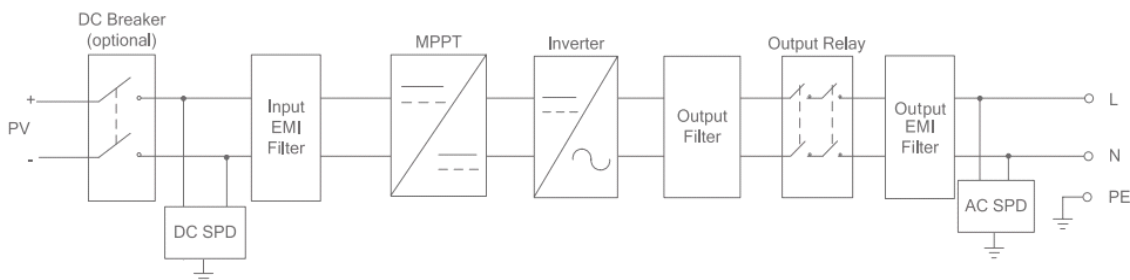
Intelligent Management

● Intelligent cloud platform monitoring, realizing one-key APP real-time monitoring

● Support RS485, GPRS, WIFI and other communication methods

Green Saving

● Small size, easy to install and use

● Natural cooling, ensuring low environmental noise

● Super-wide operating temperature range, adapt to extremely cold, high temperature areas

Function Diagram

Technical Data	AS1500TL	AS2000TL
DC Input Data		
Max. PV input voltage	600Vdc	
Rate input voltage	360Vdc	
Max. PV input current	11A	
No. of MPPTs	1	
No. of PV strings per MPPT	1	
MPPT voltage range	100Vdc ~ 500Vdc	
Starting voltage	120Vdc	
AC Output Data		
Rated AC output power	1.5kW	2.0kW
Max. output power	1.65kW	2.2kW
Rated AC output voltage	220/230Vac	
Rated output current	6.5A	8.7A
Max. output current	7.2A	9.6A
Rated grid frequency range	50/60Hz	
Grid frequency range	45~55Hz/55~65Hz	
Power Factor	＞0.99 full load	
Adjustable power factor	0.8 (leading) ~ 0.8 (lagging)	
THDi	＜3% (nominal power)	
Efficiency		
Max. efficiency	98.10%	
European efficiency	97.70%	
Protection		
Anti-islanding	Yes	
DC reversed connection	Yes	
AC short circuit protection	Yes	
Temperature Protection	Yes	
Surge Protection	Yes	
PV Fault Detect	Yes	
DC Switch	Yes	
General Data		
Dimensions (WxHxD)	360×420×125mm	
Weight	11.8kg	
IP Grade	IP65	
Noise emission	≤25dB	
Self-consumption at night	＜1W	
Cooling type	Natural cooling	
Altitude	4000m (＞2000m derating)	
Operation temperature	-40~60℃ (＞45℃ derating)	
Operation humidity	0~95% (Non-condensing)	
Display	LCD + LED	
Communication	RS485/WiFi (optional)/GPRS (optional)/DRM(Australia)	
DC terminal	H4 Terminal	
AC terminal	Plug and play connector	
Installation method	Wall-mounted	
Standard	EN 62109-1, EN 62109-2, NB/T 32004, AS 3100, AS 4777, EN 61000-6-2, EN 61000-6-3	