



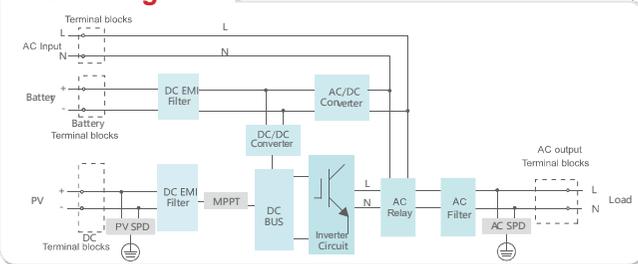
Overview

3.5~5.5kW off-grid inverter for residential storage application

Features

- Built-in dustproof kit to adapt to harsh environment
- Programmable working mode
- High density
- Suitable for lead-acid battery&lithium battery
- Screen LCD
- Compatible with RS232/USB communication
- Work with or without battery
- Multiple units parallelable up to 9 units

Block Diagram



AC(Grid-input)

	WAET 3000TL-24	WAET 3000-48	WAET 5000-48
Rated power	3kW	3kW	5kW
Rated voltage	230V	230V	230V
Rated current	13A	13A	21.7A
Voltage range	210V - 250V	210V - 250V	210V - 250V
Rated frequency	50/60Hz(Auto sensing)	50/60Hz(Auto sensing)	50/60Hz(Auto sensing)
Frequency range	45~55/55~65Hz	45~55/55~65Hz	45~55/55~65Hz
AC connection	L/N/PE	L/N/PE	L/N/PE

Output

	WAET 3000TL-24	WAET 3000-48	WAET 5000-48
Waveform	sine wave	sine wave	sine wave
Efficiency	93 %	93 %	93 %
Rated current	13A	13A	21.7A
THDU	≤3%linear	≤3%linear	≤3%linear
Rated frequency	50/60Hz	50/60Hz	50/60Hz
Overload capability	110%-10 min 120%-1 min	110%-10 min 120%-1 min	110%-10 min 120%-1 min
PF	0.9lagging~0.8leading	0.9lagging~0.8leading	0.9lagging~0.8leading

DC (Battery and PV)

Max. recommended PV Voltage	500V	500V	500V
Recommended PV power	3kW	3kW	6kW
MPP voltage range	120~450V	120~450V	120~450V
No. of MPP trackers/PV strings per MPP tracker	1	1	1
Recommended nominal battery voltage	27V	54V	54V
Battery voltage range	24V	48V	48V
Full load battery voltage range	~27V	~54V	~54V
Max. charge/discharge current	30A/125A	15A/62.5A	60A/104A

General Information

Protection devices		AC break	
Protection degree	Ip21	Ip21	Ip21
Noise emission	<65dB(A)@1m	<65dB(A)@1m	<65dB(A)@1m
Operating temperature	-25 °C~+55 °C	-25 °C~+55 °C	-25 °C~+55 °C
Cooling	Forced-air	Forced-air	Forced-air
Relative humidity	0-95% non-condensing	0-95% non-condensing	0-95% non-condensing
Maximum altitude	6000m (derate over 3000m)	6000m (derate over 3000m)	6000m (derate over 3000m)
Dimension (W/H/D)	130/315/400mm	130/315/400mm	130/350 /455mm
Weight	10.5kg	10.5kg	11.5kg
Topology	Transformerless	Transformerless	Transformerless
Lighting protection	Option	Option	Option
Transfer between on/off grid	Automatic≤10ms	Automatic≤10ms	Automatic≤10ms
Standby consumption	<20W	<20W	<20W

Communication

Display	LCD	LCD	LCD
Communication	Rs232	Rs232	Rs232