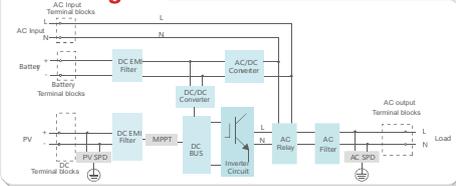## WAET

SL1100C

Overview

5KW capacity Off-grid inverter (up to 30KW system) for home,school or villa application

Features

- 3.5" Screen LCD
- Timing output
- Flexibly schedule the inverter charging and discharging time
- PV input voltage up to 450VDC
- Equalizaion charging function
- Compatible with CAN and 485 communication
- Work with or without battery
- Multiple units parallelable up to 6 uits

Block Diagram

Datasheet

	WAET SL1103C	WAET SL1105C
DC (Battery)		
Battery Voltage	48V DC	48V DC
Battery Type	Lithium/Lead-acid	Lithium/Lead-acid
AC (Grid-connected)		
Rated power	3kW	5kW
Rated voltage	230VAC	230VAC
Rated current	≈13A	≈21.7A
Voltage range	230V±5%	230V±5%
Rated frequeny	50/60Hz(Auto sensing)	50/60Hz(Auto sensing)
Frequeny range	45~55/55~65Hz	45~55/55~65Hz
THDI	<3%	<3%
PF	1	1
AC connedion	L/N/PE	L/N/PE
AC input	>3kW	>5KW
AC Output		
Rated power	3kW	5kW
Rated voltage	230V	230V
Rated current	13A	21.7A
THDI	≤2%linear	≤2%linear
Rated frequeny	50/60Hz	50/60Hz
Overload capability	105%-1min 110%-1s	105%-1min 110%-1s
Solar CHARGER		
Max. recommended PV power	4000W	6000W
MPP voltage range	120VDC~430VDC	120VDC~430VDC
No.of MPP trackers/PV strings per MPP tracker	1/1	1/1
Max. recommended PV Voltage	450V	450V
Maximum Solar Charge Current	60A	100A
AC CHARGER		
Charge Current	60A	80A
AC Input Voltage	230VAC	230VAC
Selectable Voltager Range	170~280VAC(For Personal Computer/90~280VAC(fOR home Appliances)	
Frequency Range	50Hz/60Hz(Auto sensing	50Hz/60Hz(Auto sensing
General Information		
Protedion degee	Ip21	Ip21
Noise emission	<65dBA@1m	<65dBA@1m
Operating temperater	-25 ℃~+55 ℃	-25 ℃~+55 ℃
Cooling	Forced-air	Forced-air
Relative humidity	0-95% noncondensing	0-95% noncondensing
Maximum altitude	6000m (derate over 2000m)	6000m (derate over 2000m)
Dimension/MEAS (W/H/D)	485/325/140mm/595/405/220mm	485/325/140mm/595/405/220mm20mm
Weight(N.W.)	11.6kg	11.6kg
Weight(G.W.)	13.5kg	13.5kg
Transfer between on/off grid	Automatic≤10ms	Automatic≤10ms
Standly consumption	<30W	<30W
Communication		
Display	3.5" LCD Screen	3.5" LCD Screen
Communication	RS485/CAN	RS485/CAN

Certificate CE:LVD,EMC RoHS EN 61000-6-4:2007+A1:2011 , EN61000-6-2:2005 , EN62109-1:2010 , EN62109-2:2011

* Battery voltage is determined by the following equation:
Vmin = 32 x Vn/V1 , Vmax = Mmpp - 100)* Vn/V2 , Vmax <600VDC
V1 is battery cell discharge cut-off voltage, V2 is battery cell boost charge voltage, Vn is battery cell nominal voltage.