Furrion Ltd.

Electrical Specification Of Inverter

NO.: Q3-160001

MODEL	Inverter	**SPEC.Version (REV.)**	V 1.0
ENVIRONMENT TEMPERATURE	25℃	**INPUT VOLTAGE**	12V
MCU Software Version			
DESCRIPTION	1500W pure sinewave inverter.		
TEST INSTRUMENTS	1.DC Power Supply:	2.Electronic load:	
	3.OSC:	4.DMM:	
	5.DC Power supply:		

ITEM	UNIT	S1	S2	Specification standard
Inverter part				
Battery voltage	Vdc			10.5 to 15
Input current @12.6V	Adc			Max. 150
Battery Low Voltage Disconnect for Delay 30Sec or5 Min.(Default 30Sec)	V			10.5+/-0.2
Battery Low Voltage Recovery for Delay 5Min.(Default)	V			12.5+/-0.2
Over Voltage Protection at Battery Terminal	V			15.3+/-0.2
Over Voltage Protection Recover at Battery Terminal	V			14.5+/-0.2
Output voltage	Vac			120 +/-10%
Output frequency	Hz			60+/-1
Output waveform				Pure Sine wave
Output power (input 12.6V)	W			1000/1500/2000
Load Regulation (0%-100% Load)	V			+/-2
Line Regulation at Full Load	V			+/-2
PF (＞ 500W)				0.98
Peak Output power (20Min)	W			1650
Surge Output power (1 Second)	W			3000
Efficiency	%			＞80
Current harmonics	%			＜3
Power Consumption (Full Load)	W			1800
Voltage Display Accuracy(Battery & PV）				±0.5%＋3digits
Charging Current Display Accuracy(1＜3A)				±2%＋3digits
Charging Current Display Accuracy(1≥3A)				±2%＋5digits
Insulation Resistance 500V DC(Teminals VS Housing)				min.100
Fan runing condition	1, inver power >300W; 2, Ntc1 up to 65C or NTC2 up to 45C.			
Charging Part (If has charging function)				
Battery voltage	V			7.5 to 14.4
Max .PV Input Voltage	V			max.45
Max .PV Input Current	A			max.30
Min . Charging Battery voltage	V			Max. 7V.
Efficiency	%			88
Float Charge Voltage (Default) Sealed	V			13.6V
Bulk Charge Voltage (Default) Sealed	V			14.4V
Voltage Drop(PV to Battery) at Bulk Charge	V			V
Quiescent Current (Battery 12.6V, fan off, switch on position)	A			＜0.75
Quiescent Current (Battery 12.6V, fan off, switch OFF position)	mA			＜20
Quiescent Current (Battery 12.6V, fan off, switch REMOTE position)	A			＜0.75
Quiescent current at Sleeping mode	W			＜3.8
Voltage Display Accuracy(Battery & PV）	V			2%
Charging Current Display Accuracy(1＜3A)	A			2%
Charging Current Display Accuracy(1≥3A)	A			2%
Hi-pot test (Input to output, output to housing. Current < 10mA)	Vac			1500
Insulation Resistance 500V DC(Teminals VS Housing)	MΩ			min.100
Protection				
Over Voltage Protection at PV Terminal(12V System)	V			min.47
Over Voltage Protection at BATT Terminal(12V System)	V			min.15.3
Over Charging Current Protection	A			32-38
Over Load Current Protection (Charging)	W			1800
AC Over Power protection (with 30 seconds alarm)	W			1800
AC Output Short circuit protection	Yes			Yes
Over temperature Protection	Yes			Yes
PV reverse protection	Yes			Yes
Battery reverse protection (Can be accept by fuse, but need to change outside)	Yes			Yes
GFCI	Yes			Yes
USB				

Output Voltage		V			4.7-5.3
Max.Output Current 1		A			max.1.0
Max.Output Current 2		A			max.2.0
Over load protection		A			3+/-0.2
Over load protection recover time		S			5+/-1
Port 1 D+ / D- Voltage	D+ (Green)	V			2 +/-0.2
	D-(White)	V			2.7
Port 2 D+ / D- Voltage	D+ (Green)	V			2.7
	D-(White)	V			2
Remote					
Remote display & controller		Yes			Yes
Others					
UL Certified (UL 458) (TUV UL, ETL all can be accept)		Yes			Yes
IP degree		-			-
At least can be start with a 1500W microwave(input power) - Inverter power 1500W or 2000w.		Yes			Yes
Real 1500W. Can be load 1500W with input voltage from 10.5 to 15V.		Yes			Yes
Working Environment		-10 to 40C. It can be de-rating at 50C RT.			

Prepared By Heyun

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