



100W Modified Sine Wave DC-AC Power Inverter

A301/302-100 series



■ Features :

- Built-in USB interface
- Cooling by free air convection(without fan)
- Slim size can fit in with the cup holder on vehicles
- High efficiency up to 90%
- 12V or 24V DC input
- Input voltage range: -15% ~ +25%
- Output voltage regulation: $\pm 10\%$
- Protections: Input reverse polarity/Bat. Low shutdown/Over voltage/Over load/Over temperature/Output short
- Output waveform: Modified sine wave
- Topology: Microprocessor
- Approvals: E13 / EAC / CE
- 1 year warranty



SPECIFICATION

ORDER NO.		A301-100-F3	A302-100-F3
OUTPUT	SAFETY MODEL NO.	A301-100	A302-100
	AC RATED VOLTAGE Note.1	230V	
	RATED POWER	100W	
	SURGE POWER	200W	
	WAVEFORM	Modified Sine Wave	
	FREQUENCY	50Hz $\pm 1\%$	
	AC REGULATION	$\pm 10\%$	$\pm 10\%$
	STANDARD RECEPTACLES	Europe*1ea	
	LED INDICATOR	Dual-color indicator display for power on / failure status	
INPUT	USB POWER	5VDC / 500mA (max.)	5VDC / 300mA (max.)
	DC CURRENT	15A	10A
	NO LOAD CURRENT DRAW	0.25A	0.2A
	DC VOLTAGE	12V	24V
	VOLTAGE RANGE	10 ~ 15VDC	21 ~ 30VDC
	EFFICIENCY (Typ.)	90%	
	DC CONNECTOR	650 ± 50 mm Cigarette plug*1ea	
PROTECTION	FUSE	15A* 1ea	10A* 1ea
	BAT. LOW SHUTDOWN	10 ± 0.5 V	19.5 ± 1 V
	OVER VOLTAGE	15 ~ 17V	30 ~ 32V
	OVER TEMPERATURE	60 $\pm 5^{\circ}\text{C}$ / 140 $\pm 9^{\circ}\text{F}$ (case)	
	OUTPUT SHORT	Shut-off	
ENVIRONMENT	REVERSE. POLARITY	By fuse open	
	WORKING TEMP.	0 ~ +30 $^{\circ}\text{C}$ @100% load, 40 $^{\circ}\text{C}$ @ 50% load	
	WORKING HUMIDITY	20% ~ 90% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-30 ~ +70 $^{\circ}\text{C}$ / -22 ~ +158 $^{\circ}\text{F}$, 10 ~ 95% RH	
	TEMP. COEFFICIENT	$\pm 0.05\%$ / $^{\circ}\text{C}$ (0 ~ 50 $^{\circ}\text{C}$)	
SAFETY & EMC	SAFETY STANDARDS	EAC TP TC 004 approved	
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms min./ 500VDC / 25 $^{\circ}\text{C}$ / 70% RH	
	EMI RADIATION	Compliance to EN55014-1, EAC TP TC 020	
	EMS IMMUNITY	Compliance to EN55014-2, IEC61000-4-2,3, EAC TP TC 020	
	LVD	Compliance to EN60950-1	
OTHERS	DIMENSION	$\phi 65 \times 170$ mm (Diameter*L)	
	PACKING	0.55Kg ; 30pcs / 17.5Kg / CARTON	
	COOLING	By air convection	
	APPLICATIONS	Home appliance, office and portable equipment and vehicle ...etc.	
NOTE	1. AC rated output voltage is measured at 12.5VDC, 25VDC input voltage.		



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■ Mechanical Specification

Unit:mm

