



150W Modified Sine Wave DC-AC Power Inverter

A301/302-150 series

■ Features :

- 12V or 24V DC input
- Power ON-OFF switch
- Input voltage range: -15% ~ +25%
- Output voltage regulation: $\pm 10\%$
- Protections: Bat. Low alarm/Bat. Low shutdown/Over voltage/Over temp./Output short/Input polarity reverse/Over load.
- Output waveform: Modified sine wave
- Topology: Microprocessor
- Approvals: E13 / EAC / CE / UKCA
- 1 year warranty



SPECIFICATION

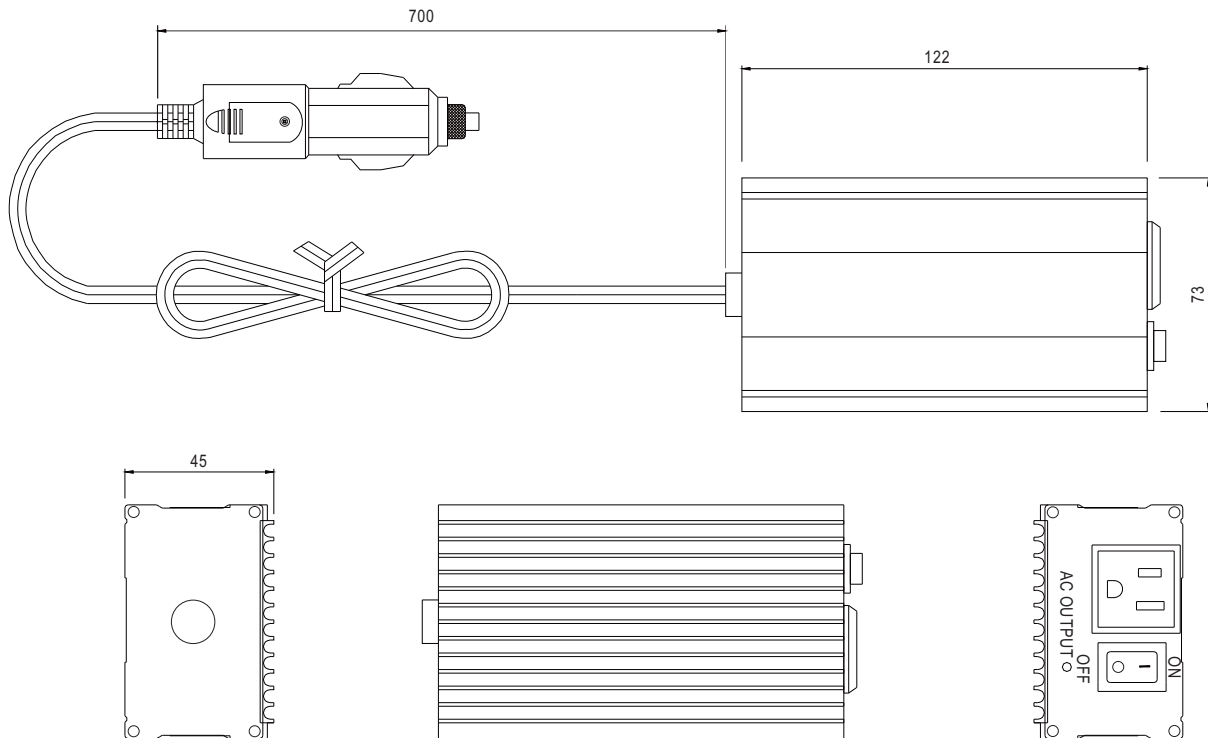
ORDER NO.		A301-150-B2	A302-150-B2
OUTPUT	SAFETY MODEL NO.	A301-150	A302-150
	AC VOLTAGE	110V	110V
	RATED POWER	150W	150W
	SURGE POWER	300W	300W
	WAVEFORM	Modified sine wave	Modified sine wave
	FREQUENCY	60Hz $\pm 1\%$	60Hz $\pm 1\%$
	AC REGULATION	$\pm 10\%$	$\pm 10\%$
	STANDARD RECEPTACLES	TYPE-2* 1ea	TYPE-2* 1ea
LED INDICATOR		Green LED for power on	
INPUT	DC CURRENT	15A	10A
	NO LOAD CURRENT DRAW	0.25A	0.2A
	DC VOLTAGE	12V	24V
	VOLTAGE RANGE	10 ~ 15VDC	21 ~ 30VDC
	EFFICIENCY (Typ.)	78%	82%
	DC CONNECTOR	700mm Cigarette plug*1ea	700mm Cigarette plug*1ea
	FUSE	15A* 1ea	10A* 1ea
PROTECTION	BAT. LOW ALARM	10 ± 0.5 V	20.5 ± 1 V
	BAT. LOW SHUTDOWN	9.5 ± 0.5 V	19.5 ± 1 V
	OVER VOLTAGE	15 ~ 17V	30~32V
	OVER TEMPERATURE	60 $\pm 5^{\circ}\text{C}$ / 140 $\pm 9^{\circ}\text{F}$	
	OUTPUT SHORT	Shut-off; Broken	
	BAT. POLARITY	By fuse open	
ENVIRONMENT	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 / 500VDC / 25 $^{\circ}\text{C}$ / 70% RH	
	EMI RADIATION	Compliance to BS EN/EN55014-1, EAC TP TC 020	
	EMS IMMUNITY	Compliance to BS EN/EN55014-2, IEC61000-4-2,3, EAC TP TC 020	
	LVD	Compliance to BS EN/EN62368-1	
OTHERS	MTBF	200Khrs min. MIL-HDBK-217F(25 $^{\circ}\text{C}$)	
	DIMENSION	122*73*45mm (L*W*H)	
	PACKING	0.5Kg ; 30pcs / 17Kg / CARTON	
	COOLING	By air convection	
	APPLICATIONS	Home appliance, Power tools, Office and Portable equipment and Vehicle ...etc.	

■ AC Output Receptacles (optional)

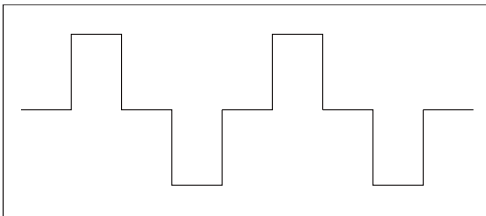
TYPE-1	TYPE-2
JAPAN	USA

Mechanical Specification

Unit:mm



AC Wavefrom Modified Sine Wave

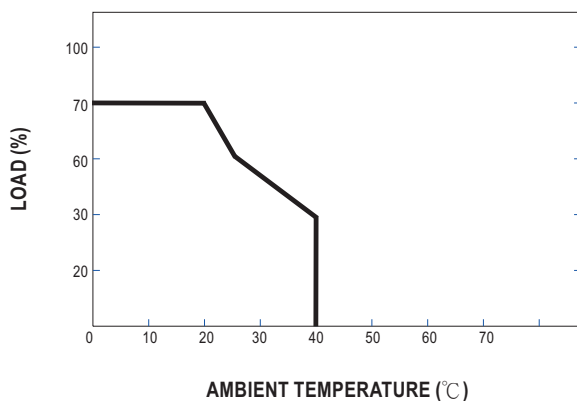


CAUTION

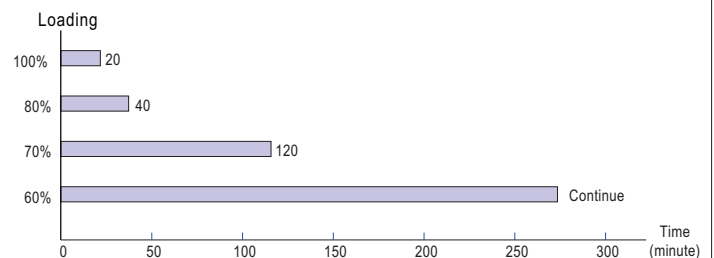
Always place the inverter in an environment which is:

- (A) Well ventilated
- (B) Not exposed to direct sunlight or heat source
- (C) Out of reach from children
- (D) Away from water/moisture oil or grease
- (E) Away from any flammable substance

Derating Curve



Output Loading & Duty





150W Modified Sine Wave DC-AC Power Inverter

A301/302-150 series

■ Features :

- 12V or 24V DC input
- Power ON-OFF switch
- Input voltage range: -15% ~ +25%
- Output voltage regulation: $\pm 10\%$
- Protections: Bat. Low alarm/Bat. Low shutdown/Over voltage/Over temp./Output short/Input polarity reverse/Over load.
- Output waveform: Modified sine wave
- Topology: Microprocessor
- Approvals: E13 / EAC / CE / UKCA
- 1 year warranty



SPECIFICATION

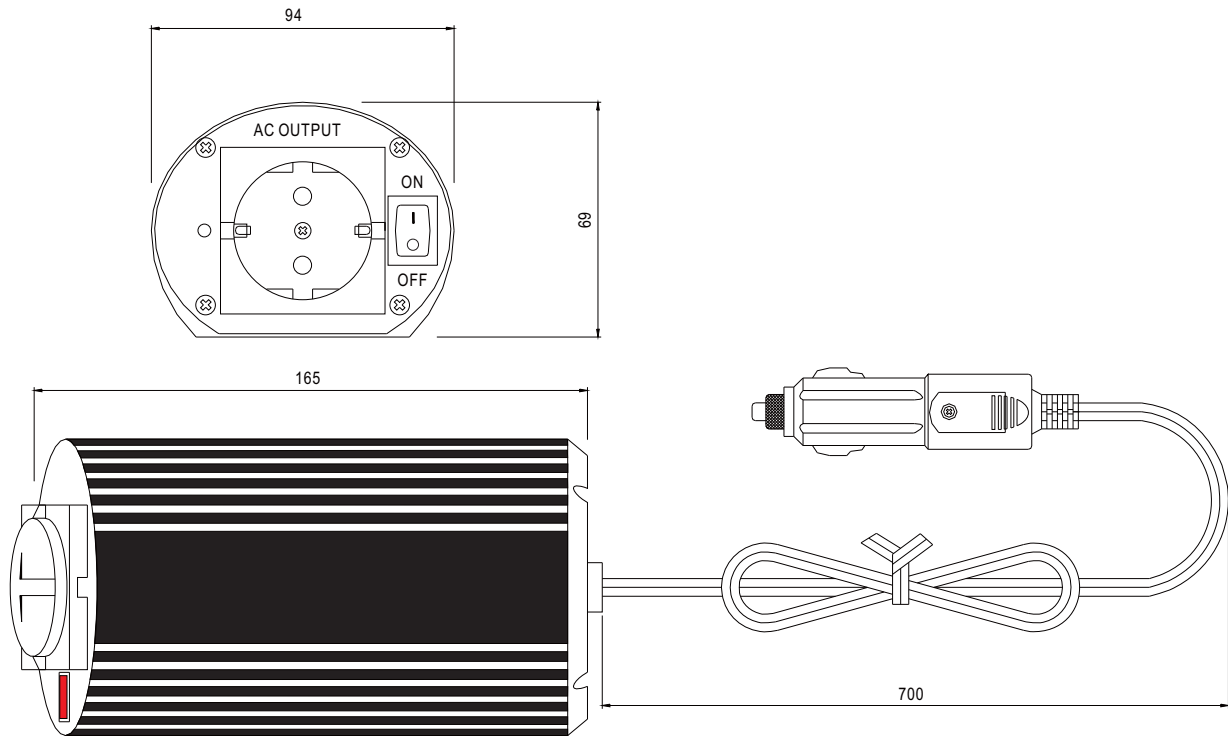
ORDER NO.		A301-150-F3	A302-150-F3
OUTPUT	SAFETY MODEL NO.	A301-150	A302-150
	AC VOLTAGE	230V	230V
	RATED POWER	150W	150W
	SURGE POWER	300W	300W
	WAVEFORM	Modified Sine Wave	Modified sine wave
	FREQUENCY	50Hz $\pm 1\%$	50Hz $\pm 1\%$
	AC REGULATION	$\pm 10\%$	$\pm 10\%$
	STANDARD RECEPTACLES	TYPE-3* 1ea	TYPE-3* 1ea
LED INDICATOR		Dual-color indicators display for power on / failure status	
INPUT	DC CURRENT	15A	10A
	NO LOAD CURRENT DRAW	0.25A	0.2A
	DC VOLTAGE	12V	24V
	VOLTAGE RANGE	10 ~ 15VDC	21 ~ 30VDC
	EFFICIENCY (Typ.)	78%	82%
	DC CONNECTOR	700mm Cigarette plug*1ea	700mm Cigarette plug*1ea
	FUSE	15A* 1ea	10A* 1ea
PROTECTION	BAT. LOW ALARM	10 ± 0.5 V	20.5 ± 1 V
	BAT. LOW SHUTDOWN	9.5 ± 0.5 V	19.5 ± 1 V
	OVER VOLTAGE	15 ~ 17V	30 ~ 32V
	OVER TEMPERATURE	60 $\pm 5^{\circ}\text{C}$ / 140 $\pm 9^{\circ}\text{F}$	
	OUTPUT SHORT	Shut-off	
	BAT. POLARITY	By fuse open	
ENVIRONMENT	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 BS EN/EN55014-1, EAC TP TC 020	
	EMS IMMUNITY	Compliance to BS EN/EN55014-2, IEC61000-4-2,3, EAC TP TC 020	
	LVD	Compliance to BS EN/EN62368-1	
OTHERS	MTBF	200Khrs min. MIL-HDBK-217F (25 $^{\circ}\text{C}$)	
	DIMENSION	165*94*69mm (L*W*H)	
	PACKING	0.8Kg ; 20pcs / 15Kg / CARTON	
	COOLING	By air convection	
	APPLICATIONS	Home appliance, Power tools, Office and Portable equipment and Vehicle ...etc.	

■ AC Output Receptacles (optional)

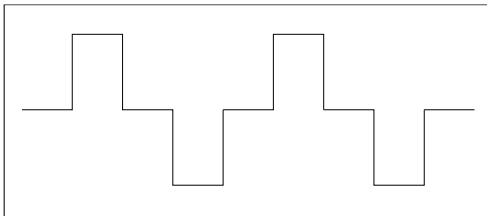
TYPE-3	TYPE-4	TYPE-5	TYPE-6
EUROPE	UNIVERSAL	AUSTRALIA	U.K

Mechanical Specification

Unit:mm



AC Wavefrom Modified Sine Wave

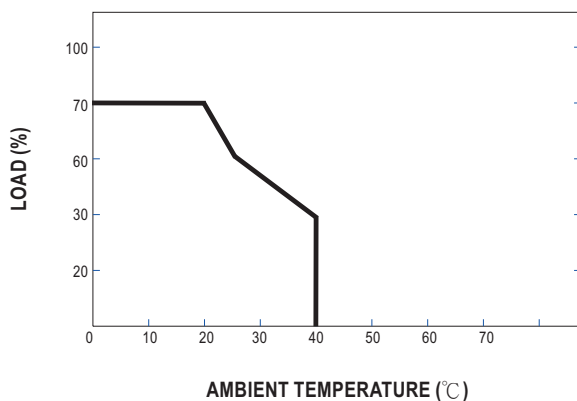


CAUTION

Always place the inverter in an environment which is:

- (A) Well ventilated
- (B) Not exposed to direct sunlight or heat source
- (C) Out of reach from children
- (D) Away from water/moisture oil or grease
- (E) Away from any flammable substance

Derating Curve



Output Loading & Duty

