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# 150W Modified Sine Wave DC-AC Power Inverter **A-301/302-150** 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/ CE
- 1 year warranty



## SPECIFICATION

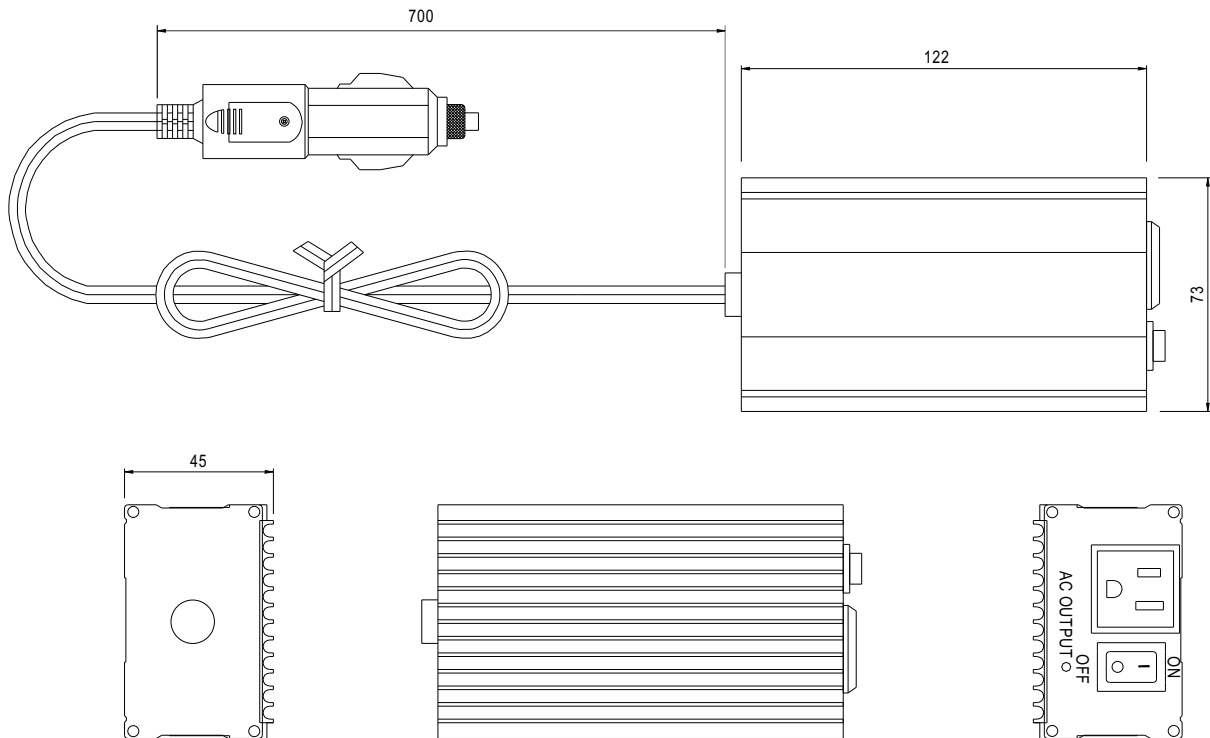
| ORDER NO.    |                            | A301-150-B2                                                                    | A302-150-B2              |
|--------------|----------------------------|--------------------------------------------------------------------------------|--------------------------|
| OUTPUT       | SAFETY MODEL NO.           | A-300-150W                                                                     | A-300-150W               |
|              | 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              |
| INPUT        | LED INDICATOR              | Green LED for power on                                                         |                          |
|              | 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 |
| PROTECTION   | FUSE                       | 15A* 1ea                                                                       | 10A* 1ea                 |
|              | BAT. LOW ALARM             | 10 $\pm 0.5$ V                                                                 | 20.5 $\pm 1$ V           |
|              | BAT. LOW SHUTDOWN          | 9.5 $\pm 0.5$ V                                                                | 19.5 $\pm 1$ V           |
|              | OVER VOLTAGE               | 15 ~ 17V                                                                       | 30~32V                   |
|              | OVER TEMPERATURE           | 60 $\pm 5^{\circ}$ C / 140 $\pm 9^{\circ}$ F                                   |                          |
|              | OUTPUT SHORT               | Shut-off; Broken                                                               |                          |
| ENVIRONMENT  | BAT. POLARITY              | By fuse open                                                                   |                          |
|              | WORKING TEMP.              | 0 ~ 30 $^{\circ}$ C @100% load, 40 $^{\circ}$ C @50% load                      |                          |
|              | WORKING HUMIDITY           | 20% ~ 90% RH non-condensing                                                    |                          |
|              | STORAGE TEMP., HUMIDITY    | -30 ~ +70 $^{\circ}$ C / -22 ~ +158 $^{\circ}$ F, 10 ~ 95% RH                  |                          |
|              | TEMP. COEFFICIENT          | $\pm 0.05\%$ / $^{\circ}$ C (0 ~ 50 $^{\circ}$ C)                              |                          |
| SAFETY & EMC | ISOLATION RESISTANCE       | I/P-O/P:100M Ohms / 500VDC / 25 $^{\circ}$ C / 70% RH                          |                          |
|              | EMI CONDUCTION & RADIATION | Compliance to EN55022 class B, 72/ 245/ CEE, 95/ 54/ CE                        |                          |
|              | EMS IMMUNITY               | Compliance to EN61000-4-2,3                                                    |                          |
|              | LVD                        | Compliance to EN60950                                                          |                          |
| OTHERS       | MTBF                       | 200Khrs min. MIL-HDBK-217F(25 $^{\circ}$ 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)

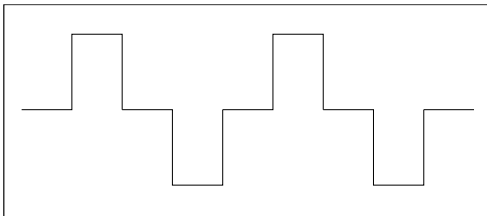
|        |        |        |           |           |        |
|--------|--------|--------|-----------|-----------|--------|
|        |        |        |           |           |        |
| TYPE-1 | TYPE-2 | TYPE-3 | TYPE-4    | TYPE-5    | TYPE-6 |
| JAPAN  | USA    | EUROPE | UNIVERSAL | AUSTRALIA | U.K    |

## Mechanical Specification

Unit:mm



## AC Wavefrom Modified Sine Wave

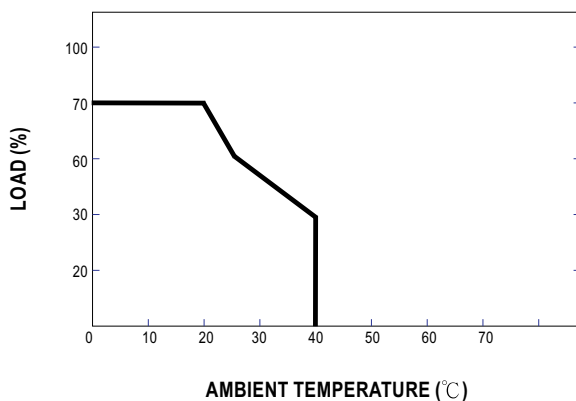


## CAUTION

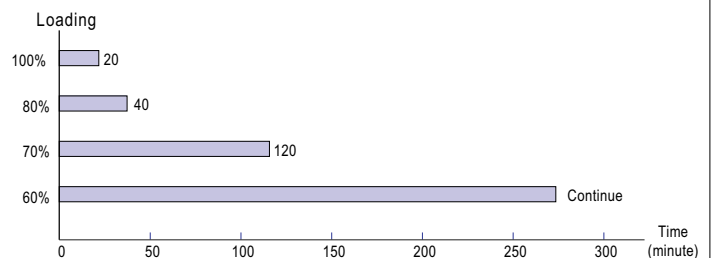
**Always place the inverter in an environment which is:**

- (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





150W Modified Sine Wave DC-AC Power Inverter

## A-301/302-150 series



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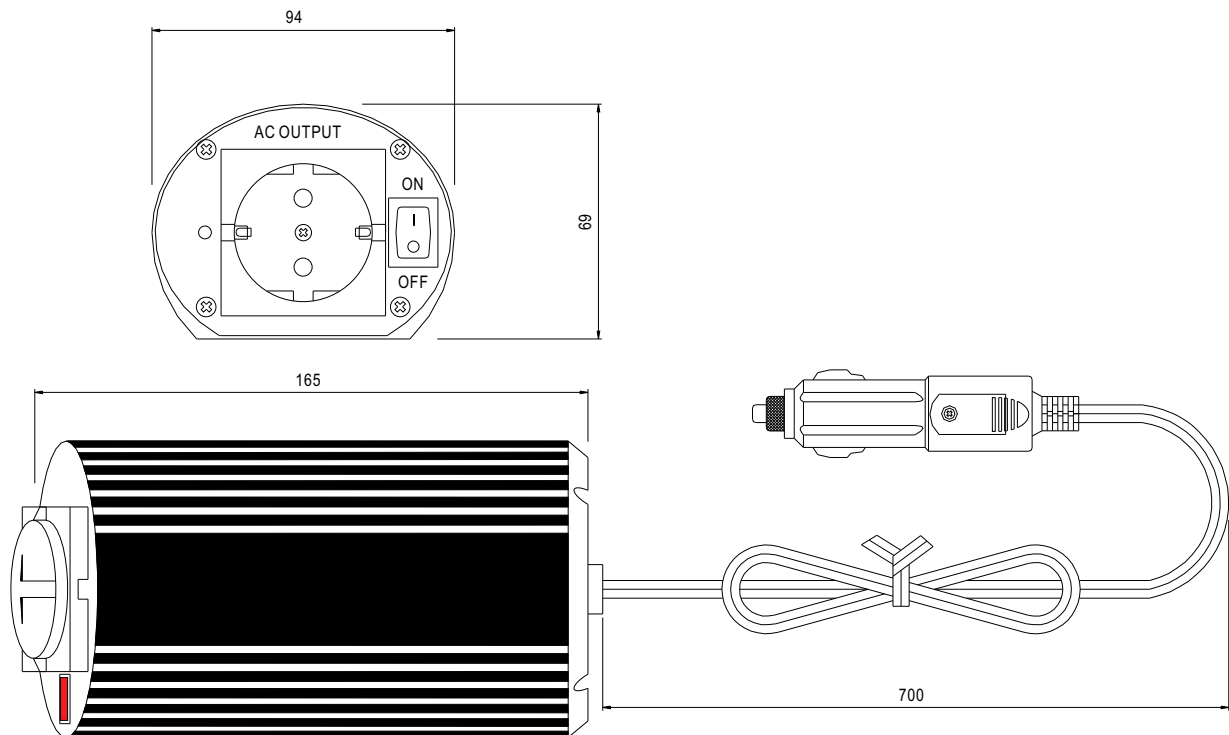
| ORDER NO.    |                            | A301-150-F3                                                                    | A302-150-F3              |
|--------------|----------------------------|--------------------------------------------------------------------------------|--------------------------|
| OUTPUT       | SAFETY MODEL NO.           | A-300-150W                                                                     | A-300-150W               |
|              | 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              |
| INPUT        | LED INDICATOR              | Dual-color indicators display for power on / failure status                    |                          |
|              | 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 |
| PROTECTION   | FUSE                       | 15A* 1ea                                                                       | 10A* 1ea                 |
|              | BAT. LOW ALARM             | 10 $\pm 0.5$ V                                                                 | 20.5 $\pm 1$ V           |
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|              | OVER VOLTAGE               | 15 ~ 17V                                                                       | 30 ~ 32V                 |
|              | OVER TEMPERATURE           | 60 $\pm 5^{\circ}\text{C}$ / 140 $\pm 9^{\circ}\text{F}$                       |                          |
|              | OUTPUT SHORT               | Shut-off                                                                       |                          |
| ENVIRONMENT  | BAT. 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 | ISOLATION RESISTANCE       | I/P-O/P: 100M Ohms min. / 500VDC / 25 $^{\circ}\text{C}$ / 70% RH              |                          |
|              | EMI CONDUCTION & RADIATION | Compliance to EN55022 class B, 72/ 245/ CEE, 95/ 54/ CE                        |                          |
|              | EMS IMMUNITY               | Compliance to EN61000-4-2,3                                                    |                          |
|              | LVD                        | Compliance to EN60950                                                          |                          |
| 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. |                          |

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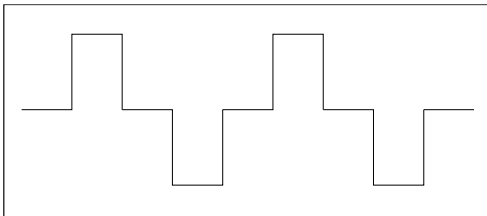
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Unit:mm



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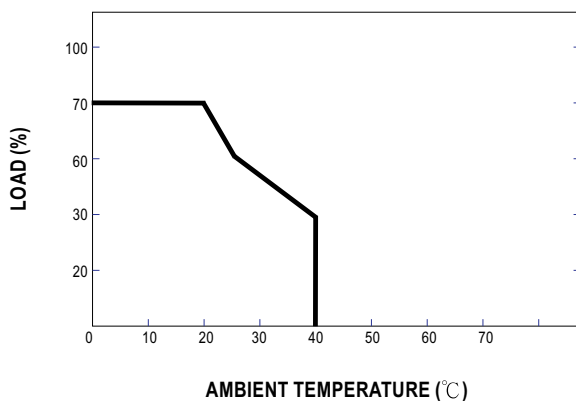


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