



- True sine wave output (THD<3%)
- High surge power up to 1400W
- High efficiency up to 91%
- Power ON-OFF switch
- Standby saving mode can be selectable
- Front panel indicator for operation status
- Built-in fan ON-OFF control function
- Protections: Bat. low alarm / Bat. low shutdown / Over temp/ Output short / Reverse polarity / Overload
- Application : Home appliance, power tools, office and portable equipment, vehicle and yacht ...etc.
- GFCI Protection



Model Number	Input Volts	Input Amps	Efficiency	Bat. Low Alarm	Bat. Low Shutdown	Fuse
TS-700-112F	12 Volts(DC)	75 Amps	86%	11.3±4%	10.5±4%	40Amps*3
TS-700-124F	24 Volts(DC)	38 Amps	88%	22.5±4%	21±4%	30Amps*2
TS-700-148F	48 Volts(DC)	19 Amps	89%	45±4%	42±4%	20Amps*2



700W True Sine Wave DC-AC Power Inverter

TS-700 series

INPUT SPECIFICATIONS

Input Voltage Range	
12Volts(DC):	10.5~15Volts(DC)
24Volts(DC):	21~30Volts(DC)
48Volts(DC):	42~60Volts(DC)
No Load Dissipation	≤ 6W @ standby saving mode
Off Mode Current Draw	≤ 1 mAmps
Battery Types	Open & sealed Lead Acid
Battery Polarity	By internal fuse open
Efficiency typ. (Note 1)	See Selection Chart
Fuse	See Selection Chart
Bat. Low Alarm	See Selection Chart
Bat. Low Shutdown	See Selection Chart

OUTPUT SPECIFICATIONS

Max Output Power (Typ.)	800W for 180S/1050W for 10S / surge power 1400W for 30 cycles
AC Voltage	100/110/115/120VAC select by S.W Factory setting @ 110VAC
Frequency	60 ±0.1Hz 50/60Hz select by S.W
Waveform	True sine wave (THD<3%) at rated input voltage
AC Regulation (typ.)	±3.0%
Saving Mode (typ.)	Load ≤5W will be changed to standby mode
Front Panel Indicator	Battery voltage level, output load level, saving mode, fault and operation status
Over Current Protection	105~115% for 180S, 115~150% for 10S Shutdown o/p voltage, re-power
Over Temperature Protection	80°C±5°C Shutdown o/p voltage, re-power; by internal RTH3 detect on heatsink of power diode
Output Short	Shutdown o/p voltage, re-power
GFCI Protection	Only type F

All specifications are typical at nominal input, full load, and 25°C unless otherwise noted

GENERAL SPECIFICATIONS

Safety	Design refer to UL458
Insulation Resistance	AC O/P-FG, Bat I/P-FG: 100MΩ/500VDC/25°C/70% RH
EMI	Compliance to FCC class A
Isolation	3000VAC Bat I/P - AC O/P 1500VAC AC O/P - FG

ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature (Not 3)	0°C to +40°C @ 100% load 60°C @ 50% load
Storage Temperature	-30°C ~ +70°C / -22~+158°F 10~95% RH
Relative Humidity	20 to +90% RH non cond
Vibration	10~500Hz, 3G10min./1cycle, period for 60min. each along X, Y, Z axes

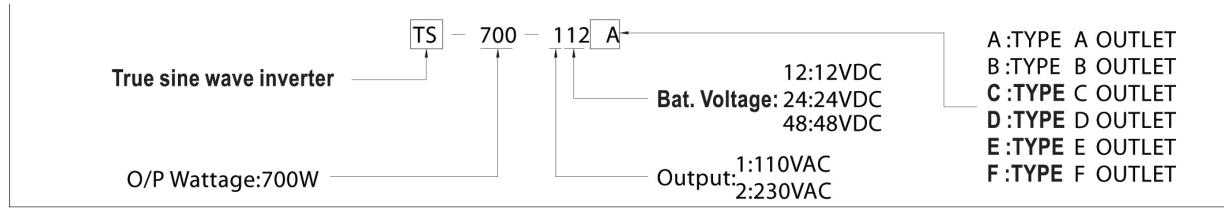
PHYSICAL SPECIFICATIONS

Size		
Millimeters	295 x 184 x 70	
Inches	11.61" x 7.24" x 2.76"	
Weight	134.04 oz (3800g)	

NOTE

1. Efficiency is tested by 530W, linear load at 13V, 26V, 52V input voltage.

Astrodyne products are not authorized or warranted for use as critical components in life support systems, equipment used in hazardous environments, nuclear controls systems, or other mission-critical applications.



AC Output Receptacles (optional)

Receptacle type	TYPE-A	TYPE-B	TYPE-C	TYPE-D	TYPE-E	TYPE-F
Country	USA	EUROPE	AUSTRALIA	U.K	JAPAN	GFCI
Certificate	FC	E13 CE	E13 CE	E13 CE	FC	FC

Mechanical Specification

