



samlexamerica

# 1500W



## DC-AC Inverter / Charger for Solar Applications

⚡ Pure Sine Wave

Model

TN-1500-112F  
12 VDC-120 VAC

TN-1500-124F  
24 VDC-120 VAC

### Design Features

- True sine wave output (THD<3%)
- Power ON-OFF switch
- Saving mode set by controller
- LED indicator for operation status
- Thermostatically controlled cooling fan
- Protections: Battery low alarm, battery low shutdown, over temperature, output short, input polarity reverse, overload
- Application: Home appliance, power tools, office and portable equipment, vehicle and yacht, etc.
- Solar panel input and with UPS function (TN-1500)
- Optional monitoring software

## 2 YEAR WARRANTY

	MODEL NO.	TN-1500-112F	TN-1500-124F
OUTPUT	RATED POWER (TYP.)	1500W	1500W
	AC VOLTAGE	Factory setting set at 110 VAC - 120 V 100 / 110 / 115 / 120 selectable by setting button S.W .	
	MAXIMUM OUTPUT POWER	1725 W for 180 sec / 2250 W for 10sec / surge power 3000 W for 30 cycles	
	WAVEFORM	True sine wave (THD<3%) at rated input voltage	
	FREQUENCY	60±0.1% 50/60 Hz selectable by setting button S.W.	
	AC REGULATION (TYP.)	± 3.0%	± 3.0%
	TRANSFER TIME	t < 10ms → inverter by-pass (TN-1500 only)	
	SAVING MODE (TYP.)	Load 5 W will be changed to standby mode	
	FRONT PANEL INDICATOR	Battery voltage level, output load level, saving mode, fault and operation status	
INPUT	DC CURRENT (TYP.) NOTE 5	150 A	75 A
	NO LOAD DISSIPATION	18W @ standby saving mode	18W @ standby saving mode
	OFF MODE CURRENT DRAW	1mA	1mA
	BATTERY VOLTAGE	12 V	24 V
	VOLTAGE RANGE (TYP.) NOTE. 1	10.5 ~ 15 VDC	21 ~ 30 VDC
	EFFICIENCY (TYP.) NOTE. 2	87%	89%
	BATTERY TYPES	Open & sealed Lead Acid	Open & sealed Lead Acid
BATTERY INPUT PROTECTION	FUSE	40 A x 5	30 A x 3
	BATTERY LOW ALARM	11.3 ± 4%	22.5 ± 4%
	BATTERY LOW SHUTDOWN	10.5 ± 4%	21 ± 4%
	BATTERY POLARITY	By internal fuse open	By internal fuse open
BATTERY INPUT PROTECTION	OVER TEMPERATURE	82° C ± 5° C	82° C ± 5° C
	OUTPUT SHORT	Protection type: Shut down output voltage, Reset: re-power on to recover	
	OVER LOAD (TYP.)	105 ~ 115% load for 180 sec., 115% ~ 150 % load for 10 sec	
	CIRCUIT BREAKER	20 A	20 A
	GFCI PROTECTION	Yes	Yes

NOTE: Specifications are subject to change without notice

Specifications continue on page 2...



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	MODEL NO.	TN-1500-112F	TN-1500-124F
ENVIRONMENT	WORKING TEMPERATURE NOTE. 3	0 ~+40° C @ 100% load; 60° C @ 50%	
	WORKING HUMIDITY	20% ~ 90% RH non-condensing	
	STORAGE TEMPERATURE, HUMIDITY	-30 ~ +70°C / -22 ~ +158°F, 10 ~ 95% RH	
	VIBRATION	10 ~ 500Hz, 3 G 10min./1cycle, 60min. each along X, Y, Z axis	
SAFETY AND EMC	SAFETY STANDARDS	UL458	UL458
	WITH STAND VOLTAGE	Bat I/P - AC I/P:3.0KVAC Bat I/P - AC O/P:3.0KVAC AC O/P - FG:1.5KVAC	Bat I/P - AC I/P:3.0KVAC Bat I/P - AC O/P:3.0KVAC AC O/P - FG:1.5KVAC
	EMI CONDUCTION & RADIATION	Compliance to FCC class A	
AC CHARGER	CHARGE CURRENT	5.5A ± 0.5A	2.7 A ± 0.4A
	CHARGE VOLTAGE	14.3 V ± 4%	28.5 V ± 4%
SOLAR CHARGER	MAX OPEN CIRCUIT VOLTAGE	25V	45 V
	CHARGE CURRENT	30A	30A
	VMAX CHARGE VOLTAGE	14.3 ± 4 %	28.5 V ± 4%
WIRING	CONTROL WIRING	RJ11 – RS232 (Option)	RJ11 – RS232 (Option)
GENERAL	WEIGHT, KG	6.85	6.85
	WEIGHT, LB	15.4	15.4
	PACKING	2pcs / 14.7Kg / 1.89 CUFT	2pcs / 14.7Kg / 1.89 CUFT
	DIMENSIONS, MM (L x W x H)	419 x 221 x 89 mm	419 x 221 x 89 mm
	DIMENSIONS, INCHES (L x W x H)	16.5 x 8.7 x 3.5"	16.5 x 8.7 x 3.5"

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