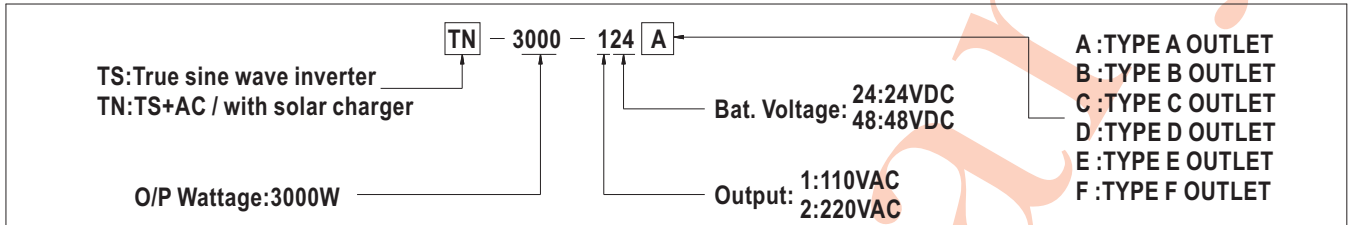


■ Features :

- True sine wave output (THD<3%)
- Power ON-OFF switch
- Saving mode settled by controller
- LED panel indication power status
- Thermostatically Controlled Cooling Fan
- Protections: Bat. Low alarm/Bat. Low shutdown/Over temp./Output short/Input polarity reverse/Over load.
- Home appliance, Power tools, Office and Portable equipment, Vehicle and Yacht ...etc.
- Approvals: UL458/ e13/ CE/ FCC



SPECIFICATION

MODEL	TN/TS-3000-124	TN/TS-3000-148	TN/TS-3000-224	TN/TS-3000-248		
OUTPUT	RATED POWER (Typ.)		3000W			
	AC RATED VOLTAGE		110V			
	AC VOLTAGE		100 / 110 / 115 / 120 selectable by control switch			
	MAXIMUM OUTPUT POWER		3450W(3min.) / 4500W(10sec.)			
	SURGE POWER		6000W			
	WAVEFORM		True sine wave (THD<3%) at rated input voltage			
	FREQUENCY		50/60±1Hz			
	AC REGULATION (Typ.)		±3.0% at rated input voltage			
	TRANSFER TIME		t<10ms inverter — by pass			
	SAVING MODE TO NORMAL		≤ 3s (5 ~ 25W)			
LED INDICATOR		O.T.P, O.L.P and Saving mode status				
CURRENT LIMIT		60A±20%		40A±20%		
INPUT	DC CURRENT (Typ.)		150A		75A	
	NO LOAD DISSIPATION		≤ 3W @ saving mode			
	OFF MODE DRAW CURRENT		≤ 1mA			
	BAT. VOLTAGE		24V		48V	
	VOLTAGE RANGE (Typ.) ^{Note.1}		21 ~ 30VDC		42 ~ 60VDC	
EFFICIENCY (Typ.) ^{Note.2}		90%		91%	91%	92%
BATTERY INPUT PROTECTION	FUSE		40A*5		40A*3	
	BAT. LOW ALARM		21±4%		42±4%	
	BAT. LOW SHUTDOWN		20±4%		40±4%	
	BAT. POLARITY		By internal fuse open			
OUTPUT PROTECTION	OVER TEMPERATURE		40 ~ 45°C at full load, Reset: re-power on			
	OUTPUT SHORT		Shut-off, Reset: re-power on			
	OVER LOAD (INVERTER)		100 ~ 117%±5% load 180sec, 117% ~ 150%±5% load 10sec, Shut down re-power on			
	OVER LOAD (AC LINE)		Circuit breaker protection			
	GFCI PROTECTION		Optional (Only type 6)		None	
ENVIRONMENT	WORKING TEMP. ^{Note.3}		-10 ~ +60°C			
	WORKING HUMIDITY		20% ~ 90% RH non-condensing			
	STORAGE TEMP., HUMIDITY		-30 ~ +70°C / -22 ~ +158°F, 10 ~ 95% RH			
SAFETY & EMC	SAFETY STANDARDS		UL458		EN60950	
	WITHSTAND VOLTAGE		Bat I/P-AC I/P:3.0KVAC Bat I/P-AC O/P:3.0KVAC AC I/P-FG:1.5KVAC			
	EMI CONDUCTION&RADIATION		Compliance to FCC class A		Compliance to EN55022 class B, 72/ 245/ CEE, 95/ 54/ CE, e-Mark e13-020932	
	EMS IMMUNITY		-----		Compliance to EN61000-4-2,3, ENV50204	
OTHERS	DIMENSION		500*283.5*93mm (L*W*H)			
	PACKING		Kg			
NOTE	1. Output Derating capacity referenced by curve 1. 2. Efficiency is tested by 2000W linear load at 26V, 52V input voltage. 3. Output Derating capacity referenced by curve 2.					

■ AC Output Receptacles (optional)

TYPE-A	TYPE-B	TYPE-C	TYPE-D	TYPE-E	TYPE-F
USA	EUROPE	AUSTRALIA	U.K	JAPAN	GFCI

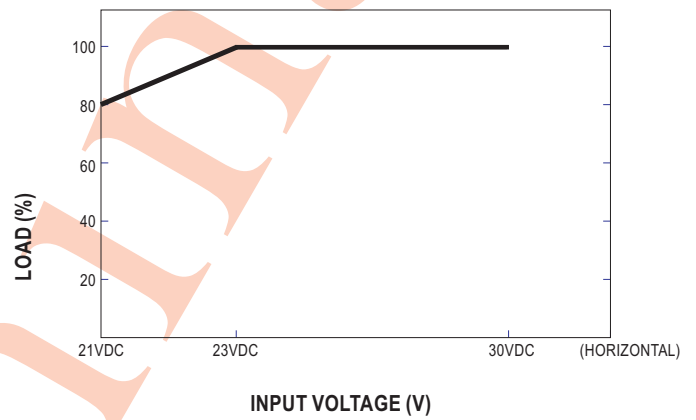
ELECTRICAL SPECIFICATIONS OF CHARGER

MODEL		TN-3000-124□	TN-3000-148□	TN-3000-224□	TN-3000-248□
AC CHARGER	CHARGE CURRENT	8.6A	4.3A	8.6A	4.3A
	BATTERY TYPES	Open & sealed Lead Acid			
	CHARGE VOLTAGE	29V±4%	58V±4%	29V±4%	58V±4%
	SHORT CIRCUIT PROTECTION	Constant current limiting			
SOLAR CHARGER	MAX OPEN CIRCUIT VOLTAGE	45V	75V	45V	75V
	CHARGE CURRENT (max.)	30A			
	Vmax CHARGE VOLTAGE	29V±4%	58±4V	29±4%	58±4%
BATTERY	BATTERY TYPES	Open & sealed Lead Acid			

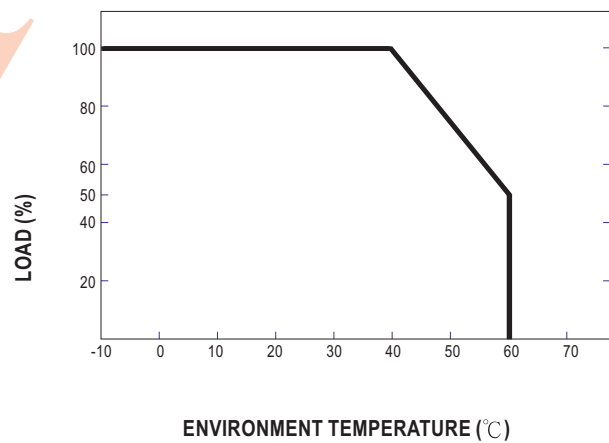
Mechanical Specification

Unit:mm

Output Derating and Curve



CURE 1



CURE 2