



Наличие и актуальные цены на

NTS-300-248EU

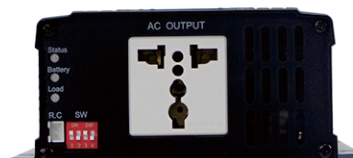
<https://www.mean-well.ru/store/NTS-300-248EU/>



DC input side



AC output side



User's Manual



Video



IEC62368-1 CSA/UL62368-1 BS EN/EN62368-1
Please refer to page3 for more details.

TPTC004 AS/NZS 62368.1



Features

- Compact size and light weight
- True sine wave output (THD<3%)
- High surge power up to 600W
- **Fanless design**
- AC output voltage and frequency selectable by DIP S.W
- No load dissipation <1.5W max. at standby saving mode
- -25°C~+65°C wide operating temperature
- Power ON-OFF remote control
- Front panel indicator for operation status
- Protections :

Input : Reverse polarity / DC low alarm / DC low shutdown / Over voltage

Output : Short circuit / Overload / Over temp.

- Battery over discharge protection(Low voltage disconnect)
- Suitable for lead-acid or li-ion batteries
- Carry handle accessory available(Order NO.: Carry handle, sold separately)
- Conformal coating
- 3 years warranty

Applications

- Mobile device
- Home and office appliance
- Power tools
- Portable equipment
- Vehicle
- Yacht
- Off-grid solar power system
- Wireless network
- Telecom or datacom system

GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

Description

NTS-300 is a 300W highly reliable off-grid true sine wave DC-AC power inverter. Its key features include: digital design with MCU control, streamlined control circuitry that quickly responds to environmental changes and improves reliability, 600W peak power, adjustable AC output voltage and frequency, -25~+65°C wide operating temperature range, complete protections features, and etc. combined with batteries, the NTS-300 is suitable for use in residential, commercial, marine, automobile, mine, construction site, and remote areas with no access to utility power, and the output can be used to power fans, TV, radio, phone charger, PC/laptop, lighting, electromechanical tool, communication equipment, power distribution cabinet, outdoor camping equipment, marine AC power, factory equipment, and etc.

Model Encoding

NTS - 300 - 1 12 US

AC output socket (Type US, EU, CN, AU, UK, UN, GFCI outlet)

DC input voltage (12: 12Vdc, 24: 24Vdc, 48: 48Vdc)

AC output voltage (1: 100/110/115/120Vac, 2:200/220/230/240Vac)

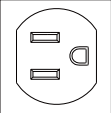
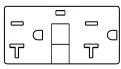
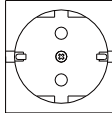
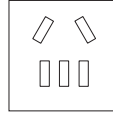
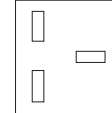
Rated wattage

Series name

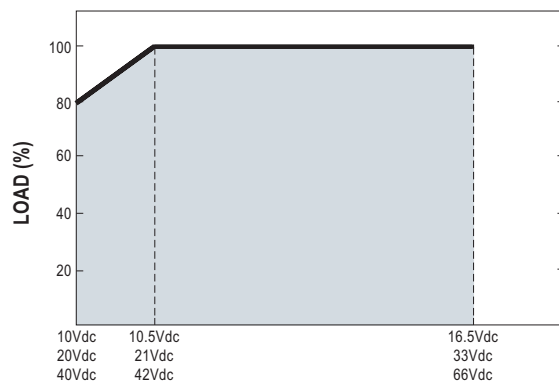
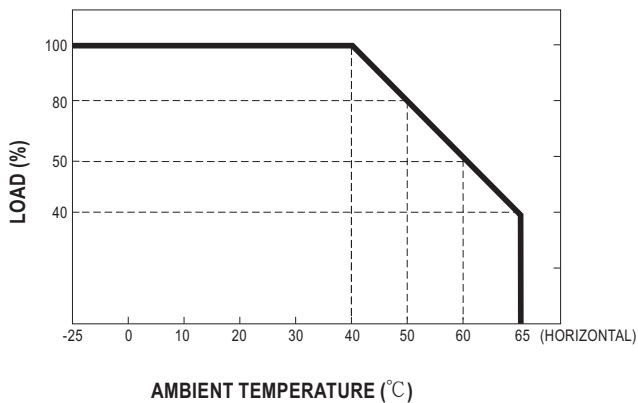
SPECIFICATION

MODEL NO.			NTS-300-112□	NTS-300-124□	NTS-300-148□	NTS-300-212□	NTS-300-224□	NTS-300-248□	
			□ = US, GFCI, UN			□ = EU, CN, AU, UK, UN			
AC OUTPUT	RATED POWER(Continuous)		300W						
	OVER RATED POWER(3 Min.)		345W						
	PEAK POWER(10 Sec.)		450W						
	SURGE POWER(30 Cycles)		600W						
	AC VOLTAGE		Default setting set at 110VAC 100 / 110 / 115 / 120Vac selectable by DIP S.W			Default setting set at 230VAC 200 / 220 / 230 / 240Vac selectable by DIP S.W			
	FREQUENCY		Default setting set at 60Hz ± 0.1Hz 50/60Hz selectable by DIP S.W			Default setting set at 50Hz ± 0.1Hz 50/60Hz selectable by DIP S.W			
	WAVEFORM Note.1		True sine wave (THD<3%)						
	AC REGULATION		± 3.0% at rated output voltage						
	FRONT PANEL LED		Please refer to page5						
DC INPUT	DC VOLTAGE		12V	24V	48V	12V	24V	48V	
	VOLTAGE RANGE (Typ.)		10 ~ 16.5Vdc	20 ~ 33Vdc	40 ~ 66Vdc	10 ~ 16.5Vdc	20 ~ 33Vdc	40 ~ 66Vdc	
	DC CURRENT (Typ.)		30A	15A	8A	30A	15A	8A	
	NO LOAD DISSIPATION (Typ.)	NON-SAVING MODE	10W	10W	12W	10W	10W	12W	
		SAVING MODE	Default disable, ≤ 1.2W ~ 1.5W by models @ auto detec AC output load ≤ 10W will be changed to saving mode						
			1.2W	1.3W	1.5W	1.2W	1.3W	1.5W	
	OFF MODE CURRENT DRAW		≤ 1mA						
	EFFICIENCY (Typ.) Note.1		90%	92%	92%	92%	93%	93%	
BATTERY TYPES		Lead Acid or li-ion							
PROTECTION	DC INPUT	FUSE (Internal)		30A*2	30A*1	10A*2	30A*2	30A*1	10A*2
		LOW	ALARM	11 ± 0.3Vdc	22 ± 0.5Vdc	44 ± 1Vdc	11 ± 0.3Vdc	22 ± 0.5Vdc	44 ± 1Vdc
			SHUTDOWN	10 ± 0.3Vdc	20 ± 0.5Vdc	40 ± 1Vdc	10 ± 0.3Vdc	20 ± 0.5Vdc	40 ± 1Vdc
			RESTART	12.5 ± 0.3Vdc	25 ± 0.5Vdc	50 ± 1Vdc	12.5 ± 0.3Vdc	25 ± 0.5Vdc	50 ± 1Vdc
		HIGH	ALARM	15.5 ± 0.3Vdc	31 ± 0.5Vdc	62 ± 1Vdc	15.5 ± 0.3Vdc	31 ± 0.5Vdc	62 ± 1Vdc
			SHUTDOWN	16.5 ± 0.3Vdc	33 ± 0.5Vdc	66 ± 1Vdc	16.5 ± 0.3Vdc	33 ± 0.5Vdc	66 ± 1Vdc
			RESTART	15 ± 0.3Vdc	30 ± 0.5Vdc	60 ± 1Vdc	15 ± 0.3Vdc	30 ± 0.5Vdc	60 ± 1Vdc
		BAT. POLARITY		By internal fuse open					
		AC OUTPUT	OVER TEMPERATURE		Protection type : Shut down o/p voltage, re-power on to recover				
	OUTPUT SHORT		Protection type : Shut down o/p voltage, re-power on to recover						
	OVER LOAD (Typ.)		105 ~ 115% load for 180 sec., 115% ~ 150% load for 10 sec. Protection type : Shut down o/p voltage, re-power on to recover						
	GFCI PROTECTION		Design refer to UL458 (Only for "GFCI" AC socket , by request)			None			
	FUNCTION		REMOTE CONTROL		Power ON-OFF remote control by front panel dry contact connector (by RELAY); Open : Normal work ; Short ,Remote off				
	ENVIRONMENT	WORKING TEMP.		-25 ~ +65℃ (Refer to "Derating curve")					
WORKING HUMIDITY		20% ~ 90% RH non-condensing							
STORAGE TEMP., HUMIDITY		-30 ~ +70℃ / -22 ~ +158°F, 10 ~ 95% RH non-condensing							
VIBRATION		10 ~ 500Hz, 3G 10min./1cycle, 60min. each along X, Y, Z axes							
SAFETY & EMC (Note.4)	SAFETY STANDARDS		CB IEC62368-1,CSA/UL62368-1,Dekra BS EN/EN62368-1,E13,EAC TP TC 004 approved;Design refer to AS/NZS 62368.1 (Please refer to next page"AC output socket" table for more details) ; Design refer to UL458(By request)						
	WITHSTAND VOLTAGE		DC I/P - AC O/P:3.0KVac AC O/P - FG:1.5KVac						
	EMC EMISSION	Parameter	Standard				Test Level / Note		
		Radiated	FCC for 112,124,148 only(expect for Type-UN)				Class A		
			BS EN/EN55032(CISPR32) for 212,224,248 only(expect for Type-UN)				Class A		
		Harmonic Current	BS EN/EN61000-3-2				-----		
	Voltage Flicker	BS EN/EN61000-3-3				-----			
	EMC IMMUNITY	BS EN/EN55024, BS EN/EN55035							
		Parameter	Standard				Test Level / Note		
		ESD	BS EN/EN61000-4-2				Level 3, 8KV air ; Level 2, 4KV contact		
Radiated		BS EN/EN61000-4-3				Level 2, 3V/m			
Magnetic Field		BS EN/EN61000-4-8				Level 1, 1A/m			
OTHERS	MTBF		845.6K hrs min. Telcordia TR/SR-332 (Bellcore) ; 85.3K hrs min. MIL-HDBK-217F (25℃)						
	DIMENSION		210*130*55mm (L*W*H)						
	PACKING		1.3Kg; 8pcs/ 11.4Kg/ 1.74CUFT						
NOTE			1.Efficiency, AC regulation and THD are tested by 300W, linear load at 12.5Vdc/25Vdc/50Vdc input voltage. 2.All parameters not specified above are measured at rated load, 25℃ of ambient temperature and set to factory setting. 3.Internal pre-start circuit, the setup time is 8s. 4.The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf) ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx						

AC Output Socket

MODEL NO.	NTS-300-112	NTS-300-124	NTS-300-148	NTS-300-212	NTS-300-224	NTS-300-248
Socket type						
	TYPE-US	TYPE-GFCI	TYPE-UN	TYPE-EU	TYPE-CN	TYPE-AU
	In Stock	By request	In Stock	In Stock	In Stock	By request
Country	USA	USA	UNIVERSAL	EUROPE	CHINA	U.K
Certificate			None			

DERATING CURVE

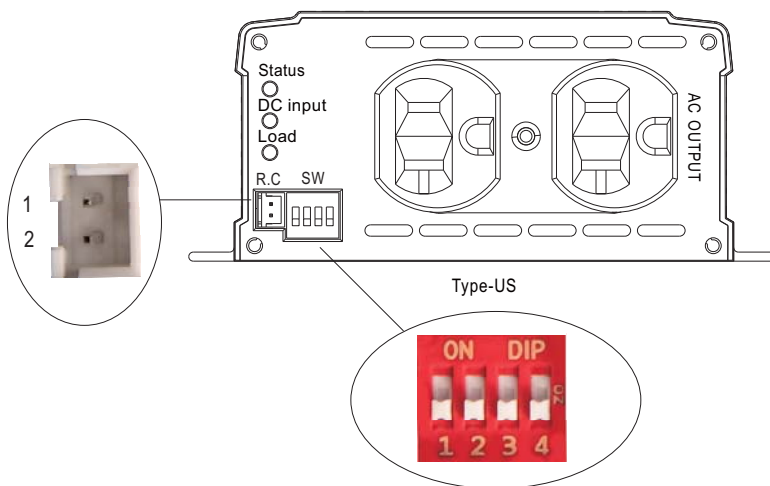


Remote ON-OFF Control

Remote ON-OFF	AC Output Status
Open	power inverter ON
Short	power inverter OFF

AC Output Voltage, Frequency, Power saving mode selectable by DIP SW

Output voltage and frequency setting factory settings are either 110Vac/60Hz or 230Vac/50Hz, users are able to adjust the voltage and frequency, through the DIP switch of position 1,2,3,4 on the panel.



AC Output Voltage, Frequency, Power saving mode selectable by DIP SW			
SW1	SW2	SW3	SW4
OFF	OFF : 100Vac or 200Vac	ON : 50Hz	ON : Saving mode
OFF	ON : 110Vac or 220Vac		
ON	OFF : 115Vac or 230Vac	OFF: 60Hz	OFF: Non-Saving mode
ON	ON : 120Vac or 240Vac		

LED STATUS

Normal work:

	Green	Orange	Red
Status	 System check  Inverter OK	 Remote off  Saving mode	 Abnormal Status (See below table)

	Green	Orange	Red
DC Input	 12.5~15.5Vdc  25~31Vdc  50~62Vdc	 11~12.5Vdc  22~25Vdc  44~50Vdc	 <11Vdc or >15.5Vdc  <22Vdc or >31Vdc  <44Vdc or >62Vdc

	Green	Orange	Red
Load	 <40% load	 40~80% load	 >80% load

Abnormal status :

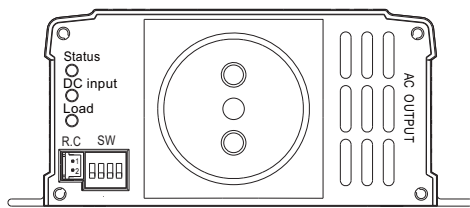
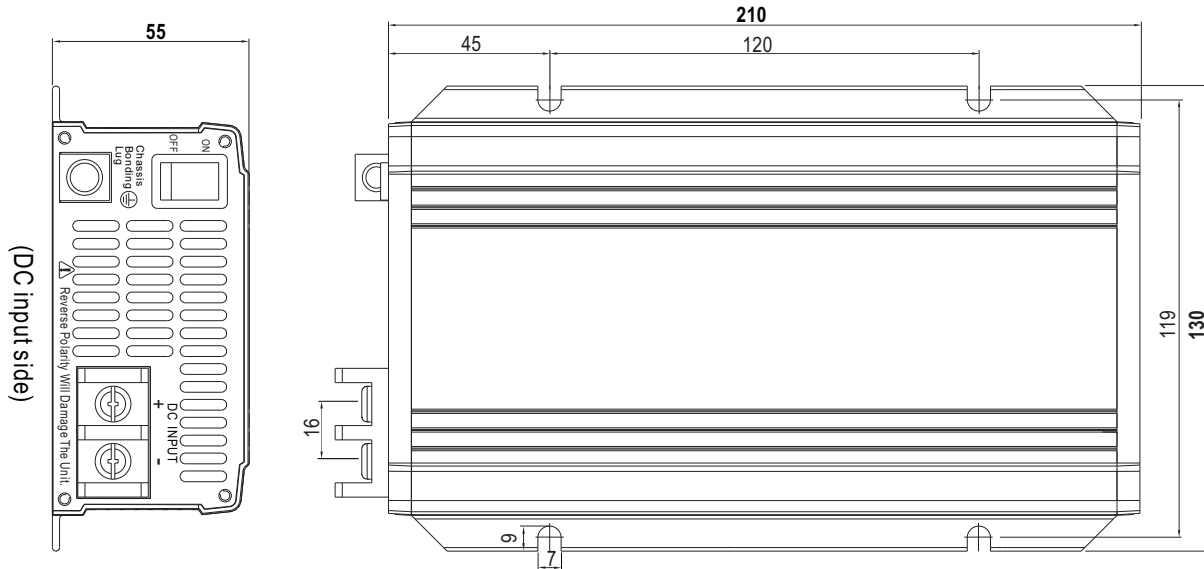
LED Indicator	Abnormal Indication
Status  DC Input  Load 	Output overload or AC output short circuit
Status  DC Input  Load 	Abnormal DC voltage
Status  DC Input  Load 	Over temperature or Fan lock
Status  DC Input  Load 	Inverter fail

-  Light
-  Light off
-  Flash

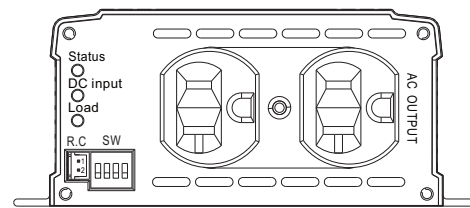
MECHANICAL SPECIFICATION

(Unit: mm , tolerance ± 1 mm)

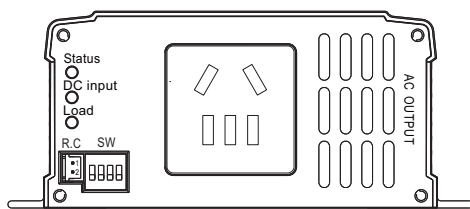
Case No. 282A



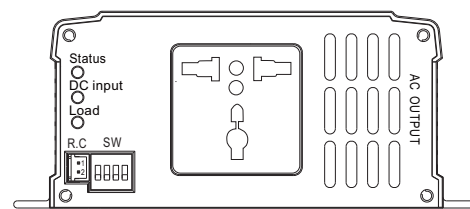
Type-EU



Type-US



Type-CN



Type-UN

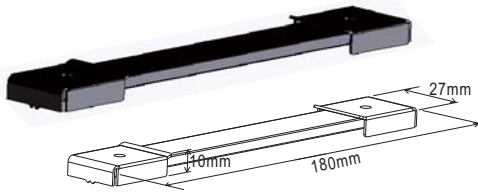
(AC output side)

R.C Connector : JST B-XH or equivalent

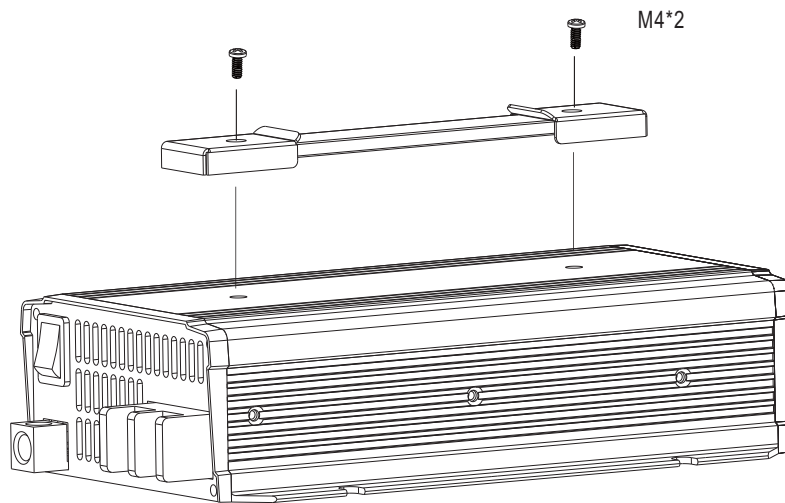
Remote Control	Mating Housing	Terminal
Pin 1,2 Open: Normal work	JST XHP or equivalent	JST SXH-001T or equivalent
Pin 1,2 Short: Remote off		

■ Accessory List

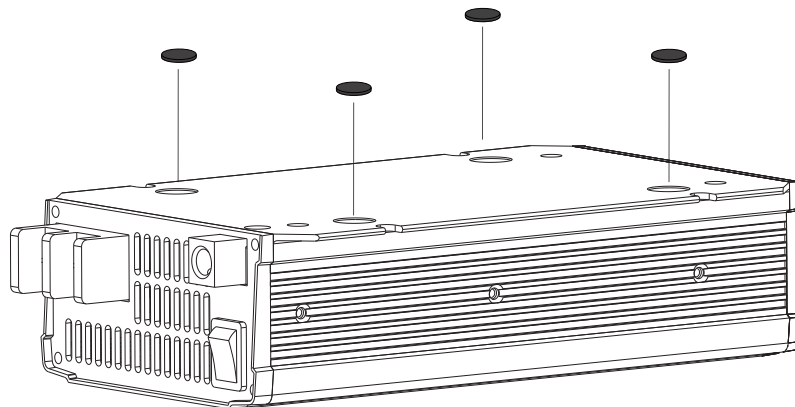
※ Carry handle (Optional accessory, Power inverter and Pull handle should ordered separately)

MW's Order No.	Item		Quantity
Carry Handle	①	Handle 	1
	②	Foot pad 	4
	③	Screw 	2

① Handle



② Foot pad



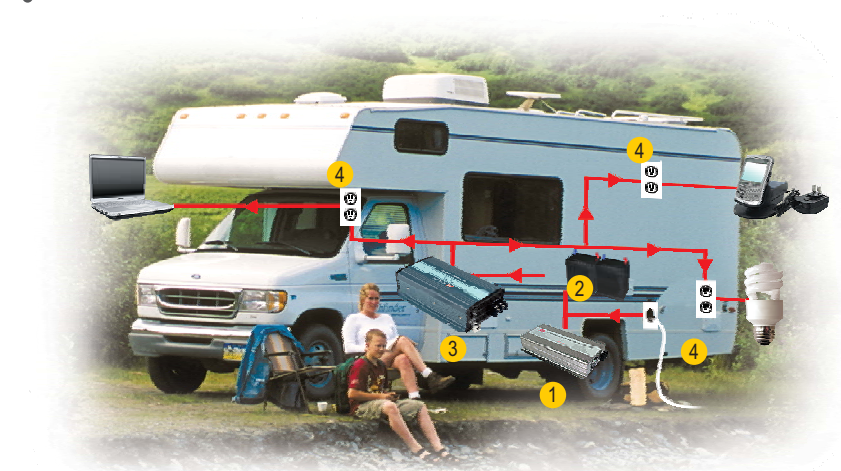
TYPICAL APPLICATION



- 1 Battery Bank
- 2 Off-Grid DC/AC Solar Inverter (NTS series)
- 3 AC Outlet



- 1 Utility Input (Shore)
- 2 AC/DC Battery Charger (PB/NPB/NPP series)
- 3 Battery Bank
- 4 Off-Grid DC/AC Power Inverter (NTS series)
- 5 AC Outlet



- 1 AC/DC Battery Charger (PB/NPB/NPP series)
- 2 Battery Bank
- 3 Off-Grid DC/AC Inverter (NTS series)
- 4 AC Outlet

INSTALLATION MANUAL

Please refer to : <http://www.meanwell.com/manual.html>