



DC input side



AC output side

















Applications

· Portable equipment

· Wireless network

· Mobile device

· Power tools

Vehicle

Yacht



· Home and office appliance

• Off-grid solar power system

Telecom or datacom system







lease refer to page3 for more details 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 disspation <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

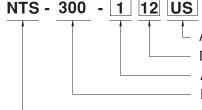
• Carry handle accessory available(Order NO.: DS-Carry handle, sold separately)

- · Conformal coating
- · 3 years warranty

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



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)

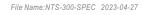
Rated wattage Series name













SPECIFICATION

MODEL NO.		NTS-300-112	NTS-300-124	NTS-300-148	NTS-300-212	NTS-300-2	24	NTS-300-248	
		= US, GFCI, UN	N .		□= EU, CN, AU,	UK, UN			
	RATED POWER(Continuous)		300W						
	OVER RATED POWER(3 Min.)		345W						
	PEAK POWER(10 Sec.)		450W						
	SURGE POW	ER(30 Cycles)	600W						
	ACVOLTAGE		Default setting set at 110VAC Default setting set at 230VAC						
TPUT	AC VOLIAGE		100 / 110 / 115 / 120Vac selectable by DIP S.W 200 / 220 / 230 / 240Vac selectable by DIP S.W						
	FREQUENCY	,							
	TREGOLINGT								
	AC REGULATION		±3.0% at rated output voltage						
			Please refer to page!	5					
	DC VOLTAGE		12V	24V	48V	12V	24V		48V
	VOLTAGE RA	NGE (Typ.)	10 ~ 16.5Vdc	20 ~ 33Vdc	40 ~ 66Vdc	10 ~ 16.5Vdc	20 ~ 33Vdc		40 ~ 66Vdc
	DC CURREN	T (Typ.)	30A	15A	8A	30A	15A		8A
-	NO LOAD	NON-SAVING MODE	10W	10W	12W	10W	10W		12W
PUT	DISSPATION	SAVING MODE	Default disable, ≤1.	2W ~ 1.5W by models	s @ auto detec AC ou	itput load ≦10W will be	changed to sa	aving mo	ode
	(Typ.)	SAVING WODE	1.2W	1.3W	1.5W	1.2W	1.3W		1.5W
1	OFF MODE C	URRENT DRAW	≦1mA						
	EFFICIENCY	(Typ.) Note.1	90%	92%	92%	92%	93%		93%
1			Lead Acid or li-ion						
	FUSE (Intern	al)	30A*2	30A*1	10A*2	30A*2	30A*1		10A*2
-		ALARM	11±0.3Vdc	22±0.5Vdc	44±1Vdc	11±0.3Vdc	22±0.5Vdc		44±1Vdc
ايا	LOW			20±0.5Vdc	40±1Vdc	-			40±1Vdc
5		RESTART							50±1Vdc
Z									62±1Vdc
8	нісн								66±1Vdc
	111011								
-					60±1Vac	15±0.3Vac	30±0.5Vac		60±1Vdc
-									
_			7 7 7						
₽	OUTPUT SHORT								
5	OVER LOAD (Typ.)		·						
~	GFCI PROCT	ECTION							
TION	DEMOTE CO	NTDOL							
HON			-25 ~ +65°C (Refer to "Derating curve")						
}									
NMENT									
			-						
\longrightarrow	VIBRATION								
	SAFETY STANDARDS								
	WITHSTAND VOLTAGE								
	WILLOUINN	VOLIAGE			1.JI\VaU		-	o	I / Note
			rarameter						:i / NOLE
TY	- HO - HOS	ON.	Radiated						
	EMC EMISSI	UN	Harmonia Correct		,	4,∠48 only(expect for 1	, ,		
.4)			Voltage Flicker BS EN/EN61000-3-3						
							-	/ N · ·	
					10				10 00
	EMC IMMUNI	ΤY			BS EN/EN61000-4-2			Level 3, 8KV air ; Level 2, 4KV conta	
			Magnetic Field BS EN/EN61000-4-8 Level 1, 1A/m						
	MTBF								
RS	DIMENSION		210*130*55mm (L*W*H)						
	PACKING		1.3Kg; 8pcs/ 11.4Kg/ 1.74CUFT						
		_	nd THD are tested by						
	2.All parameters not specifie		d above are measure	ed at rated load, 25°	$^{\circ}\!$	erature and set to fact	ory setting.		
	3.Internal pre-start circuit, the								
			•						
	4.The power	supply is consid	ered as an independ			ed to re-confirm that			mplies with the
	4.The power EMC direc	supply is consid	ered as an independ ce on how to perform			ed to re-confirm that to testing of component			mplies with the
	AC OUTPUT DC INPUT	TPUT TPUT AC VOLTAGE SURGE POW AC VOLTAGE FREQUENCY WAVEFORM AC REGULAT FRONT PANE DC VOLTAGE RA DC CURRENT NO LOAD DISSPATION (Typ.) OFF MODE C EFFICIENCY BATTERY TY LOW HIGH BAT. POLARI OVER LOAD OVER LOAD GFCI PROCT TION REMOTE CO WORKING HE STORAGE TE VIBRATION SAFETY STA WITHSTAND TY EMC EMISSION TY EMC EMISSION MTBF RS DIMENSION	OVER RATED POWER(3 Min.) PEAK POWER(10 Sec.) SURGE POWER(30 Cycles) AC VOLTAGE FREQUENCY WAVEFORM Note.1 AC REGULATION FRONT PANEL LED DC VOLTAGE VOLTAGE RANGE (Typ.) DC CURRENT (Typ.) NO LOAD NON-SAVING MODE DISSPATION (Typ.) OFF MODE CURRENT DRAW EFFICIENCY (Typ.) Note.1 BATTERY TYPES FUSE (Internal) LOW SHUTDOWN RESTART ALARM HIGH SHUTDOWN RESTART BAT. POLARITY OVER TEMPERATURE OUTPUT SHORT OVER LOAD (Typ.) GFCI PROCTECTION TION REMOTE CONTROL WORKING TEMP. WORKING HUMIDITY VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE TY EMC EMISSION EMC IMMUNITY MTBF DIMENSION MTBF DIMENSION	OVER RATED POWER(3 Min.) 345W	OVER RATED POWER(3 Min.) 345W	OVER RATED POWER(3 Min.) 345W PEAK POWER(10 Sec.) 450W SURGE POWER(30 Cycles) 600W Default setting set at 110VAC 100 / 110 / 115 / 120Vac selectable by DIP S.W Default setting set at 60Hz ± 0.1Hz 50060Hz selectable by DIP S.W Default setting set at 60Hz ± 0.1Hz 50060Hz selectable by DIP S.W Default setting set at 60Hz ± 0.1Hz 50060Hz selectable by DIP S.W Default setting set at 60Hz ± 0.1Hz 50060Hz selectable by DIP S.W Default setting set at 60Hz ± 0.1Hz 50060Hz selectable by DIP S.W Default setting set at 60Hz ± 0.1Hz 50060Hz selectable by DIP S.W Default setting set at 10VAC Default setting set at 60Hz ± 0.1Hz Default setting set at 10VAC Default set set at 10VAC Default set set set set set set set set set se	OVER RATED POWER(3 Min.) 345W	OVER RATED POWER(3 Min.) 345W SURGE POWER(30 Cycles) 500W SURGE POWER(30 Cycles) 500W SURGE POWER(30 Cycles) 500W Default setting set at 110VAC Default setting set at 230VAC AC VOLTAGE Default setting set at 160Hz ± 0.1Hz Default setting set at 230VAC 200 / 220 / 230 / 240Vac selectable by DIP S.W 200 / 220 / 230 / 240Vac selectable by DIP S.W 200 / 220 / 230 / 240Vac selectable by DIP S.W 30x60Hz selectable by DIP S.W S0x60Hz selectable	PEAR POWER(18 Sec.) 350W 200



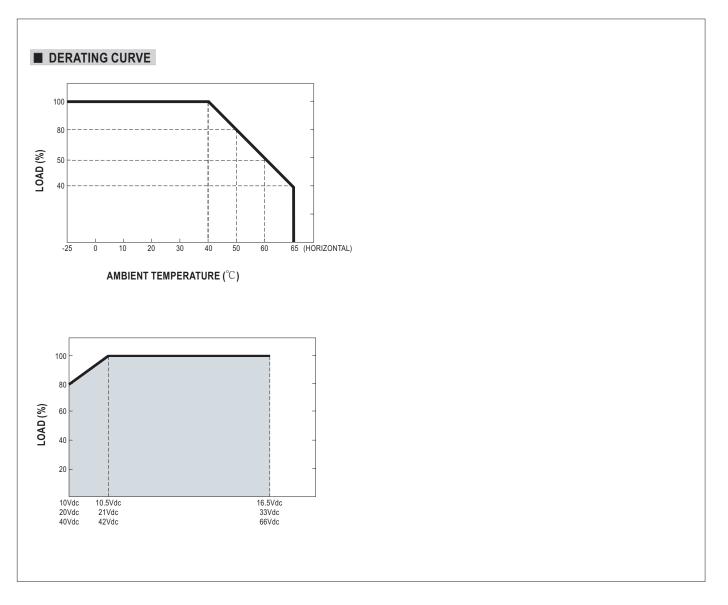








■ AC Output Socket MODEL NO. NTS-300-112 NTS-300-124 NTS-300-148 NTS-300-212 NTS-300-224 NTS-300-248 00 0 ₿ T Socket type 0 TYPE-US TYPE-GFCI TYPE-UN TYPE-EU TYPE-CN TYPE-UK TYPE-AU TYPE-UN By request In Stock In Stock In Stock In Stock In Stock By request By request Country USA USA UNIVERSAL **EUROPE** CHINA U.K AUSTRALIA UNIVERSAL CB (E13) CB F© EAC **E**13 **CBF**© CB (€13) DEKRA [III] C € LIK None DEKRA & Certificate **▶**DEKRA EHIC € EK









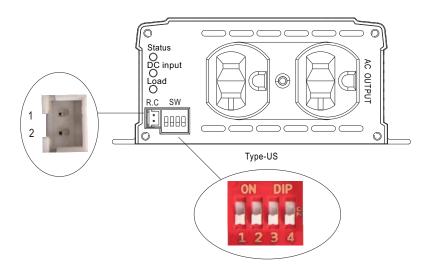


■ Remote ON-OFF Control

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 . FOLL-	ON - Coving mode			
OFF	ON: 110Vac or 220Vac	ON:50Hz	ON: Saving mode			
ON	OFF: 115Vac or 230Vac	OFF: 60Hz	OFF: Non-Saving mode			
ON	ON: 120Vac or 240Vac	OFF. 00HZ	OTT. Non-Saving mode			









■ LED STATUS

Normal work:

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

	Green	Orange	Red
DC Immut	● 12.5~15.5Vdc	● 11~12.5Vdc	<11Vdc or >15.5Vdc
DC Input	• 25~31Vdc	22~25Vdc	<22Vdc or >31Vdc
	● 50~62Vdc	44~50Vdc	<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 ————————————————————————————————————	Inverter fail

Light

Light off

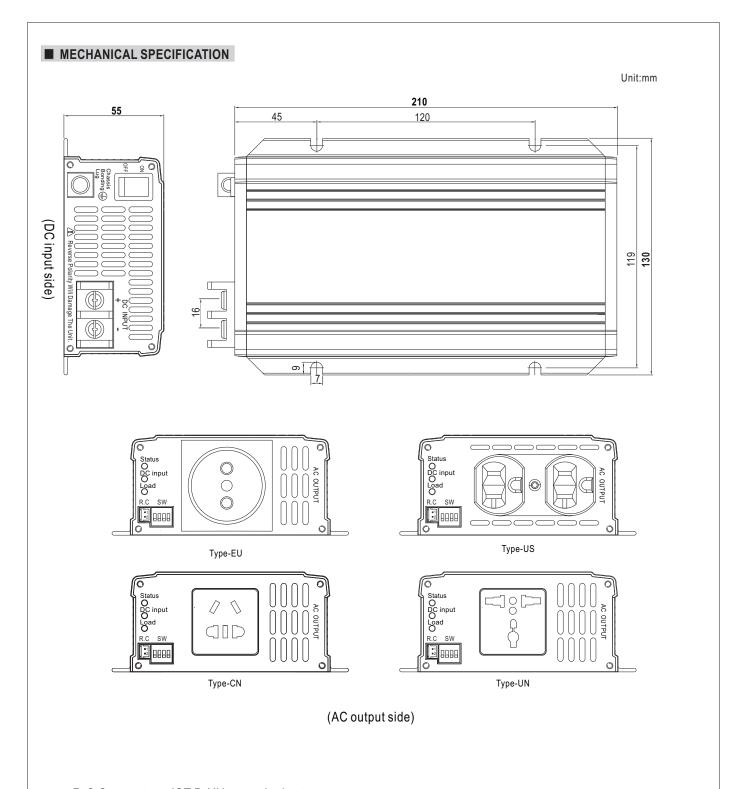
- Flash











R.C Connector: JST B-XH or equivalent

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





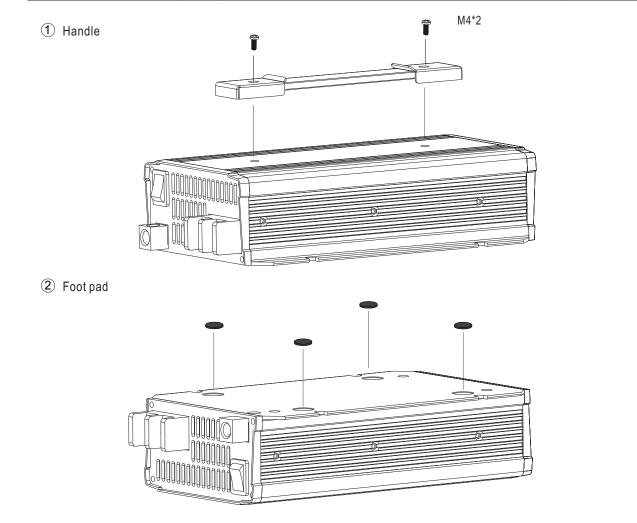




■ Accessory List

 $\frak{\%}$ Carry handle (Optional accessory, Power inverter and Pull handle should ordered seperately)

MW's Order No.		Quantity	
	1	Handle 27mm	1
DS-Carry Handle	2	Foot pad	4
	3	Screw	2







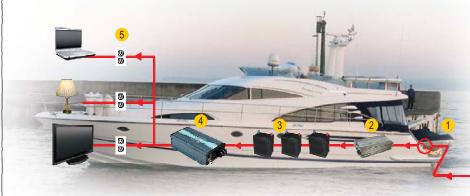




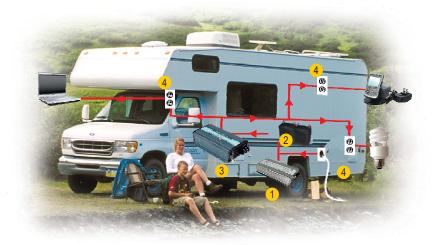
■ TYPICAL APPLICATION



- 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







