











AC output side

























IEC62368-1 BS EN/EN62368-1 (for 112/124 type GFCI only) lease refer to page3 for more details

Features

- True sine wave output (THD<3%)
- High surge power up to 3400W
- Temperature controlled cooling fan
- AC output voltage and frequency selectable by DIP S.W
- No load disspation <1.5W at standby saving mode
- -25°C ~+70°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
- · Remote controller

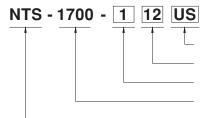
(IRC1, IRC2, IRC3 accessory sold separately, please refer to: https://www.meanwell.com/webapp/product/search.aspx?prod=IRC1)

- Support RS-232 communication(Communication cable order No.: DS-RJ11-RS232, sold sperately)
- Carry handle accessory available(Order NO.: DS-Carry handle, sold separately)
- · Conformal coating
- · 3 years warranty

Description

NTS-1700 is a 1700W 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, high quality fan with low acoustic noise, 3400W peak power, adjustable AC output voltage and frequency, -25~+70°C wide operating temperature range, complete protection features, and etc. Combined with batteries, the NTS-1700 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, induction stove, air conditioner, 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

Applications

- · 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

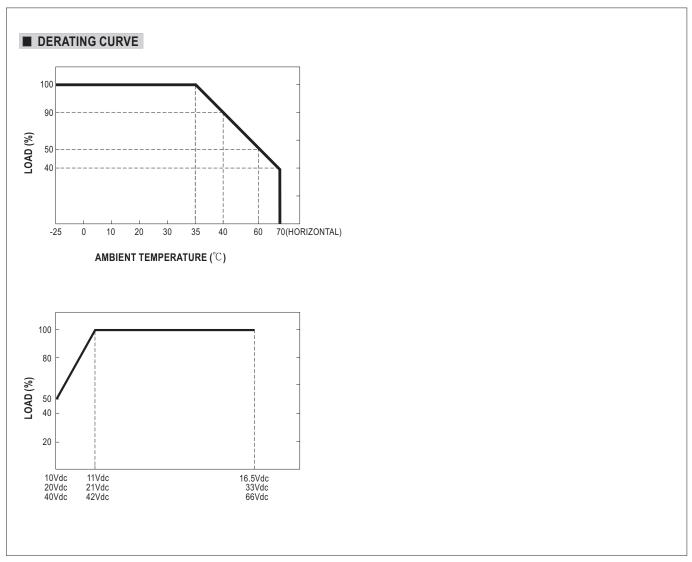


SPECIFICATION

יייטו	MODEL NO.		NTS-1700-112 NTS-1700-124 NTS-1700-148		□ NTS-1700-212	NTS-1700-212 NTS-1700-224 NTS-1700-248				
MODEL NO.		□ = US, GFCI, UN		= EU, CN, AU, U	□ = EU, CN, AU, UK, UN					
RATED POWER(Continuous)		ER(Continuous)	1500W			1700W	00W			
		OVER RATED POWER(3 Min.)		1750W 2000W						
		PEAK POWER(10 Sec.)					2550W			
		SURGE POWER(30 Cycles)		3000W			3400W			
AC OUTPUT				Default setting set a	t 110VAC		Default setting set at 2	230VAC		
		AC VOLTAGE		100 / 110 / 115 / 120Vac selectable by DIP S.W		200 / 220 / 230 / 240V		e by DIP S.W		
		FREQUENCY WAVEFORM Note.1 AC REGULATION		Default setting set at 60±0.1Hz		Default setting set at		0 2) 2 0		
				50/60Hz selectable by DIP S.W						
				50/60Hz selectable by DIP S.W True sine wave (THD<3%)						
				±3.0% at rated inpu	,					
		FRONT PANEL LED		Please see page 5						
		DC VOLTAGE		12Vdc	24Vdc	48Vdc	12Vdc	24Vdc	48Vdc	
		VOLTAGE RA		10 ~ 16.5Vdc	20 ~ 33Vdc	40 ~ 66Vdc	10 ~ 16.5Vdc	20 ~ 33Vdc	40 ~ 66Vdc	
		DC CURREN		150A	75A	37.5A	170A	85A	42.5A	
C IN	PUT						output load≦10W will be c			
CIN	PUI	NO LOAD DIS		1.2W						
		(SAVING MOI			1.4W	1.5W	1.2W	1.4W	1.5W	
			URRENT DRAW	≦1mA	000/	040/	000/	000/	000/	
		EFFICIENCY			90%	91%	89%	92%	93%	
		BATTERY TY		Lead Acid or li-ion	40.4 * 2	25.4+2	40.4 * 0	40.4*0	054+0	
		FUSE (INTER	,	40A*6	40A*3	25A*3	40A*6	40A*3	25A*3	
			ALARM	11±0.3Vdc	22±0.5Vdc	44±1Vdc	11±0.3Vdc	22±0.5Vdc		
	5	LOW	SHUTDOWN	10±0.3Vdc	20±0.5Vdc	40±1Vdc	10±0.3Vdc	20±0.5Vdc		
	INPUT		RESTART	12.5±0.3Vdc	25±0.5Vdc	50±1Vdc	12.5±0.3Vdc	25±0.5Vdc		
	2		ALARM	15.5±0.3Vdc	31±0.5Vdc	62±1Vdc	15.5±0.3Vdc	31±0.5Vdc		
_	_	HIGH	SHUTDOWN	16.5±0.3Vdc	33±0.5Vdc	66±1Vdc	16.5±0.3Vdc	33±0.5Vdc	66±1Vdc	
PROTECTION			RESTART	15±0.3Vdc	30±0.5Vdc	60±1Vdc	15±0.3Vdc	30±0.5Vdc	60±1Vdc	
		BAT. POLAR	TY	By internal fuse open						
		OVER TEMPI	ERATURE	Protection type: Shut down o/p voltage, re-power on to recover						
	ř	OUTPUT SHO	ORT	Protection type : Shut down o/p voltage, re-power on to recover						
	OUTPUT	OVERIOAD	(Tun)	105 ~ 115% load for 180 sec., 115% ~ 150% load for 10 sec.						
	AC 0	OVER LOAD	(тур.)	Protection type : Shut down o/p voltage, re-power on to recover						
	Ā	CIRCUIT BRE		15A			10A			
		(ONLY FOR "GFCI"AC SOCKET)					10A			
		GFCI PROCT			I" AC socket, by reque	,				
		REMOTE	CONNECTOR	Power ON-OFF remote control by front panel dry contact connector(by RELAY), Open: Normal work; Short: Remote off						
UNC	TION		ACCESSORY	Remote controller sold separately, Order No.: IRC1,IRC2,IRC3						
			MUNICATION	RS-232 ~ RJ11 Type connector (Please refer to page 4 for more details)						
		WORKING TEMP.		-25 ~ +70°C (Refer to "Derating curve") 20% ~ 90% RH non-condensing						
IVIRO	NMENT	WORKING H			· · · · · · · · · · · · · · · · · · ·					
			MP., HUMIDITY	-30 ~ +70°C / -22 ~ +158°F, 10 ~ 95% RH non-condensing						
		VIBRATION		10 ~ 500Hz, 3G 10min./1cycle, 60min. each along X, Y, Z axes						
		SAFETY STA	NDARDS	CB IEC62368-1, Dekra BS EN/EN62368-1, UL458, E13, EAC TP TC 004, AS/NZS 62368.1 approved						
				(Please refer to next page "AC output socket" table for more details)						
		WITHSTAND	VOLTAGE		OKVac AC O/P - F	:1.5KVac				
				Parameter	Standard		- 100		Test Level / Note	
				Radiated		1,148 only(expect for	71 /		Class A	
		EMC EMISSI	DN			,	,224,248 only(expect for	Type-UN)	Class A	
				Harmonic Current	BS EN/EN6100					
AFE				Voltage Flicker	BS EN/EN6100	00-3-3				
& EM				BS EN/EN55024, E						
Note				Parameter	Standard			Test Leve		
		EMC IMMUNI	TY	ESD	BS EN/EN6100				SKV air ; Level 2, 4KV conta	
				Radiated	BS EN/EN6100			Level 2, 3		
				Magnetic Field	BS EN/EN6100			Level 1, 1		
		MTBF		475.5K hrs min.	Telcordia TR/SR-3	32 (Bellcore); 46.2	2K hrs min. MIL-HDBK	-217F (25°C)		
	RS	DIMENSION		400*184*70mm (L*1	,					
THE	-	PACKING		4.63Kg; 2pcs/ 12Kg	/ 1.76CUFT					
THE			1.Efficiency, AC regulation an 2.No load disspation at non-s 3.All parameters not specified 4.Internal pre-start circuit, the 5.The power supply is consid EMC directives. For guidan		by 1350W load, line	ear load at 12.5Vdc		age.		
THE		1.Efficiency 2.No load d 3.All param 4.Internal pi 5.The powe EMC direc	sspation at non- eters not specifie re-start circuit, th r supply is considatives. For guidat	saving mode(Typ.): ed above are measu e setup time is 8s. dered as an indepe	112/124/148 for 16 ared at rated load, 2 andent unit, but the	$25^{\circ}\!$	perature and set to factor need to re-confirm that t	he whole sy		



■ AC Output Socket MODEL NO. NTS-1700-112 NTS-1700-124 NTS-1700-148 NTS-1700-212 NTS-1700-224 NTS-1700-248 00 0 ₿ ald 0 Socket type TYPE-US TYPE-GFCI TYPE-UN TYPE-EU TYPE-CN TYPE-UK TYPE-AU TYPE-UN In Stock By request In Stock In Stock In Stock By request By request In Stock Country USA USA UNIVERSAL AUSTRALIA UNIVERSAL **EUROPE** CHINA U.K CB (E13) CB F© CB F© E₁₃ [H[CB (€13) DEKRA [III CE UK DEKRA & None Certificate c (U) us DEKRA EMIC € EK

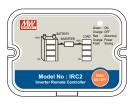




■ IRC1/2/3 Remote Controller (Accessory sold seperately)

- IRC1/IRC2/IRC3 is the monitoring and control unit.
- IRC1/IRC2/IRC3 can decode the RS-232 signals sent by the inverter series and display through digital meters. Note: Part of the control signals will not function properly due to different compliance of each model.



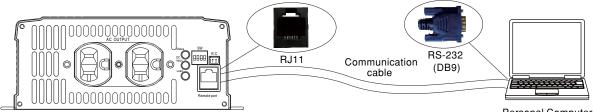




X Please refer to for more detail: https://www.meanwell.com/webapp/product/search.aspx?prod=IRC1

■ Support RS-232 Communication

• The internal data of single NTS-1700 can read through RS-232.



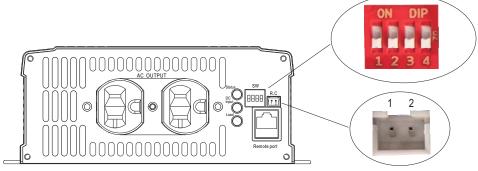
- Personal Computer
- * Please refer to for more detail: http://www.meanwell.com/manual.html
- 💥 RJ11-RS232 Communication cable should be ordered seperately, Order No.: DS-RJ11-RS232

■ Remote ON-OFF Control (Built-in)

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.



Type-US

AC Output Voltage、 Frequency、 Power saving mode selectable by DIP SW					
SW1	SW2	SW3	SW4		
OFF	OFF: 100Vac or 200Vac	ON 5011	ON - Caving made		
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	Of 1. 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 Innut	● 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

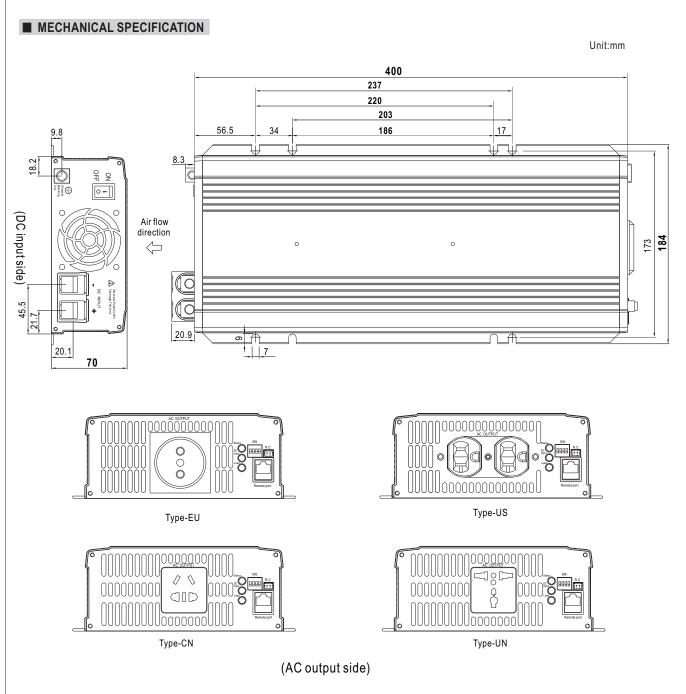
Abnormal status:

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

O Light off





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

Remote port connector (RJ11)



Assignment	Rx	GND	Tx
Remote port	2	3	4
DB9	3	5	2



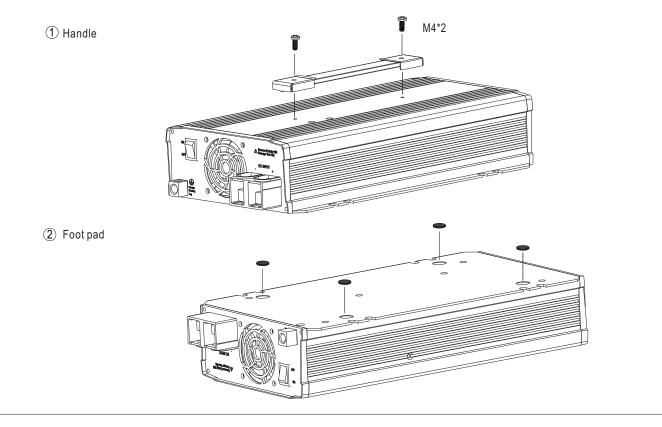
■ Accessory List

X Communication cable (Optional accessory, Power inverter and Communication cable should ordered seperately)

MW's Order No.	Item	Quantity	
DS-RJ11-RS232		1	

X Carry handle (Optional accessory, Power inverter and Pull handle should ordered seperately)

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

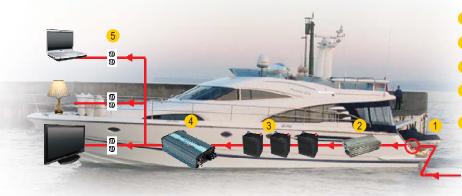




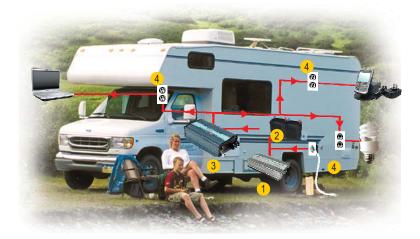
■ TYPICAL APPLICATION



- 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 AC/DC 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