







AC output side























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

Features

- · Built-in UPS function (AC by-pass)
- 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
- -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

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

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

Description

NTU-1700 is a 1700W highly reliable off-grid true sine wave DC-AC power inverter with built-in UPS function(AC by-pass). 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 NTU-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



Applications

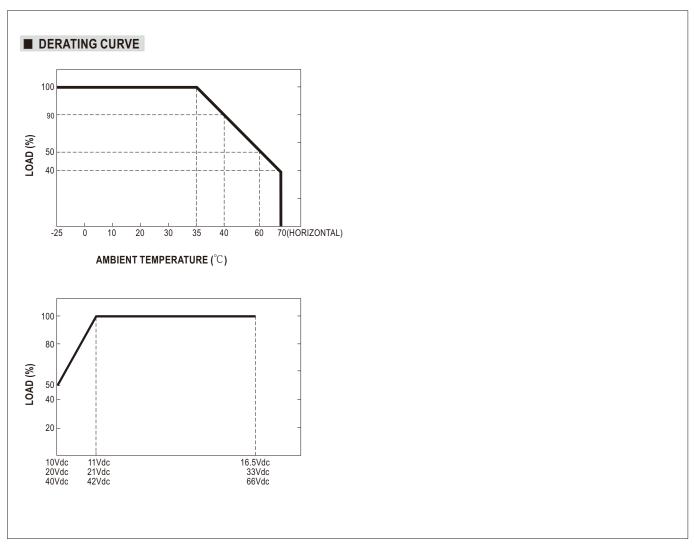
- · Home and office appliance
- Power tools
- Portable equipment
- · Vehicle
- Yacht
- Off-grid solar power system
- · Wireless network
- Telecom or datacom system

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

Lead Acid or li-ion $40A^*6$ 11 ± 0.3 Vdc 10 ± 0.3 Vdc 12.5 ± 0.3 Vdc 15.5 ± 0.3 Vdc 15.5 ± 0.3 Vdc 15 ± 0.3 Vdc 15 ± 0.3 Vdc By internal fuse open Protection type: Shut $105\sim115\%$ load for 1 Protection type: Shut Protection type: Shut Shut Shut Shut Shut Shut Shut Shut	110VAC 'ac selectable by D 60±0.1Hz y DIP S.W <3%) ut voltage 24Vdc 20 ~ 33Vdc 75A detect AC output lo. 90% 40A*3 22±0.5Vdc 20±0.5Vdc 25±0.5Vdc 31±0.5Vdc 33±0.5Vdc 30±0.5Vdc 30±0.5Vdc	48Vdc 40 ~ 66Vdc 37.5A	= EU, CN, AU 1700W 2000W 2550W 3400W Default setting set 200 / 220 / 230 / 20 Default setting set 50/60Hz selectabl 12Vdc 10 ~ 16.5Vdc 170A anged to saving mode 89% 40A*6 11±0.3Vdc 10±0.3Vdc 12.5±0.3Vdc 15.5±0.3Vdc	at 230VAC 40Vac selectable at 50±0.1Hz e by DIP S.W 24Vdc 20 ~ 33Vdc 85A 92% 40A*3 22±0.5Vdc 20±0.5Vdc 25±0.5Vdc	48Vdc 40 ~ 66Vdc 42.5A 93% 25A*3 44±1Vdc 40±1Vdc
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15±0.3Vdc By internal fuse open Protection type: Shut Protection type: Shut 105 ~ 115% load for 1 Protection type: Shut	30±0.5Vdc	66±1Vdc		31±0.5Vdc	62±1Vdc
By internal fuse open Protection type: Shut Protection type: Shut 105 ~ 115% load for 1 Protection type: Shut			16.5±0.3Vdc	33±0.5Vdc	66±1Vdc
Protection type: Shut Protection type: Shut 105 ~ 115% load for 1 Protection type: Shut		60±1Vdc	15±0.3Vdc	30±0.5Vdc	60±1Vdc
Protection type : Shut 105 ~ 115% load for 1 Protection type : Shut					
105 ~ 115% load for 1 Protection type : Shut	t down o/p voltage,	re-power on to recov	/er		
Protection type : Shut	t down o/p voltage,	re-power on to recov	/er		
	105 ~ 115% load for 180 sec., 115% ~ 150% load for 10 sec.				
	t down o/p voltage,	re-power on to recov	/er		
5A 10A					
UL458 (Only for "GFCI"	'AC socket, by reques	st) None	'		
Power ON-OFF remo	ote control by front p	panel dry contact cor	nnector(by RELAY), Ope	en : Normal work ;	; Short : Remote off
Remote controller sold separately, Order No.: IRC1,IRC2,IRC3					
RS-232 ~ RJ11 Type	connector (Please	refer to page 4 for m	ore details)		
100/110/115/120Vac			200/220/230/240\	/ac±16%, recove	er±13%
45 ~ 65Hz				,	
10ms inverter /	AC by pass				
-25 ~ +70°C (Refer to	· · · · · · · · · · · · · · · · · · ·				
,	~ +70 C (Refer to Derating curve) 6 ~ 90% RH non-condensing				
-30 ~ +70°C / -22 ~ +		I non-condensing			
10 ~ 500Hz, 3G 10m			IVOS		
,		0 , ,	EAC TP TC 004,AS/N2	79 62368 1 anni	royed
(Please refer to nex				-0 02000. i appi	ioveu
DC I/P - AC I/P:3.0K					
		0/1 .0.01(100 /10)	5/1 1 0.1.01(140		Test Level / Note
raiailletei		1 110 only/overest for	Type LIM)		Class A
Radiated			·· /	for Tuno LINI)	
		,		ioi iype-UN)	Class A
Conducted			*	for Type LINI	Class A
Hammanin O		,	z,zz4,z48 uniy(expect	ioi iype-UN)	Class A
					Class A
-		10-3-3			
	Standard			Test Level /	Note
ESD	BS EN/EN6100	00-4-2		Level 3, 8KV	air; Level 2, 4KV contact
Radiated	BS EN/EN6100	00-4-3		Level 2	
EFT / Burst	BS EN/EN6100	00-4-4		Level 2, 1KV	1
Surge	BS EN/EN6100	0-4-5		Level 3, 1KV	//Line-Line 2KV/Line-Eartl
Conducted	BS EN/EN61000-4-6 Level 2				
Magnetic Field	BS EN/EN6100	00-4-8		Level 1	
Voltage Dips and	DC EN/ENGAGO	00 4 11		>95% dip 0.5	5 periods, 30% dip 25 peri
Interruptions	DO EN/EN6100	70-4-11			uptions 250 periods
421.9K hrs min. 1	Telcordia TR/SR-33	32 (Bellcore); 45	.3K hrs min. MIL-HD	BK-217F (25°C)	
		•		. /	
,	,				
saving mode(Typ.): 1	112/124/148 for 16 ed at rated load, 2	6W, 212/224/248 for 25° C of ambient ter	or 29W. nperature and set to fa	actory setting.	stem complies with the
3	Conducted Harmonic Current Voltage Flicker BS EN/EN55024, B: Parameter ESD Radiated EFT/ Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 421.9K hrs min. 400*184*70mm (L*W 4.63Kg; 2pcs/12Kg/ dd THD are tested be aving mode(Typ.): 18 above are measur setup time is 8s. ered as an independent.	Radiated	FCC for 112,124,148 only(expect for BS EN/EN55032(CISPR32) for 21: FCC for 112,124,148 only(expect for BS EN/EN55032(CISPR32) for 21: FCC for 112,124,148 only(expect for BS EN/EN55032(CISPR32) for 21: FCC for 112,124,148 only(expect for BS EN/EN55032(CISPR32) for 21: FCC for 112,124,148 only(expect for BS EN/EN55032(CISPR32) for 21: FCC for 112,124,148 only(expect for BS EN/EN55032(CISPR32) for 21: FCC for 112,124,148 only(expect for BS EN/EN55032(CISPR32) for 21: FCC for 112,124,148 only(expect for BS EN/EN61000-3-2 BS EN/EN61000-3-2 BS EN/EN61000-3-3 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 Conducted BS EN/EN61000-4-6 Magnetic Field BS EN/EN61000-4-8 Voltage Dips and Interruptions BS EN/EN61000-4-11 Voltage Dips and Interruptions BS EN/EN61000-4-8 Voltage Dips and Interruptions BS EN/EN61000-4-11 Voltage Dips and Interruptions BS EN/EN61000-4-8 Voltage Dips and Interruptions BS EN/EN61000-4-3 Voltage Dips and Inte	FCC for 112,124,148 only(expect for Type-UN)	FCC for 112,124,148 only(expect for Type-UN)



■ AC Output Socket MODEL NO. NTU-1700-112 🔲 NTU-1700-124 🔲 NTU-1700-148 NTU-1700-212 NTU-1700-224 NTU-1700-248 0 0 -T ₿ 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 **EUROPE** CHINA U.K AUSTRALIA UNIVERSAL CB (E13) CB F© CB F© E₁₃ [H[CB (€13) DEKRA [H[C € CK None DEKRA & Certificate c (ŲL) us DEKRA EMIC € EK

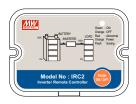




■ IRC1/2/3 Remote Controller (Accessory sold seperately)

- 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.



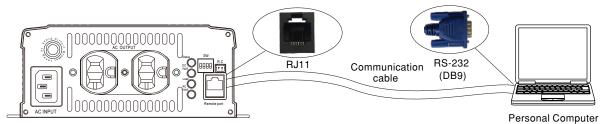




※ Please refer to for more detail: https://www.meanwell.com/webapp/product/search.aspx?prod=IRC1

■ Support RS-232 Communication

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



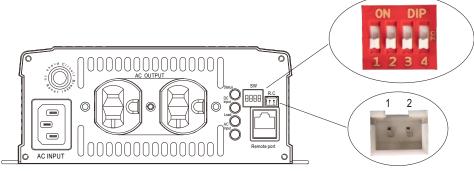
- X Please refer to for more detail: http://www.meanwell.com/manual.html
- 🔆 RJ11-RS232 Communication cable should be ordered seperately, Order No.: RJ11-RS232

■ 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 . FOLL-	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	System check Inverter OK	Remote off	Abnormal Status (See below table)

	Green	Orange	Red
DO Invit	● 12.5~15.5Vdc	● 11~12.5Vdc	<11Vdc or >15.5Vdc
DC Iput	• 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

	Green	
AC Input	Utility OK	
	Utility error	
	O Utility disconnected	

Abnormal status:

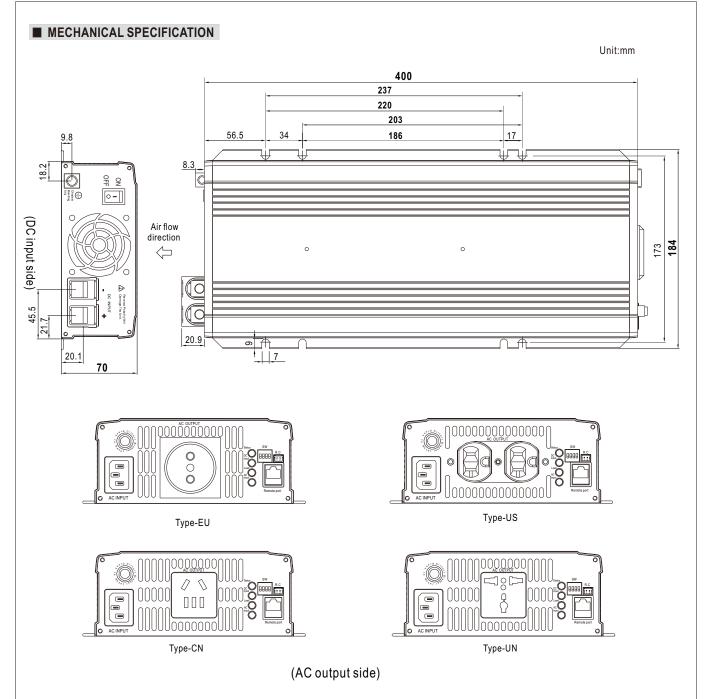
LED Indicator	Abnormal Indication
Status DC Input Load	Output overload or AC output short circuit
Status DC Input Load	Abnormal DC voltage
Status DC Input Load	Over temperature or Fan lock
Status	Inverter fail

Light

O Light off

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

Remote port connector (RJ11)



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



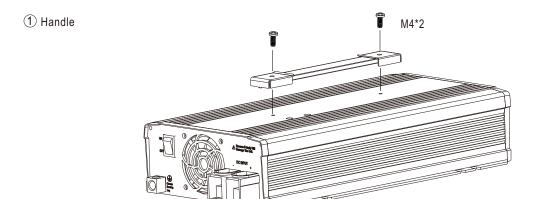
■ Accessory List

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

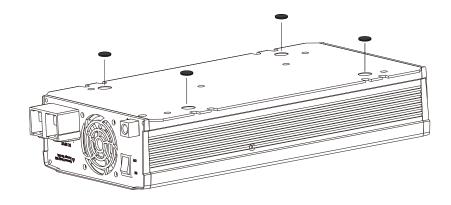
MW's Order No.	Item	Quantity	
RJ11-RS232		1	

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

MW's Order No.			Item	Quantity
	1	Handle	27mm 180mm	1
Carry Handle	2	Foot pad		4
	3	Screw		2



② Foot pad





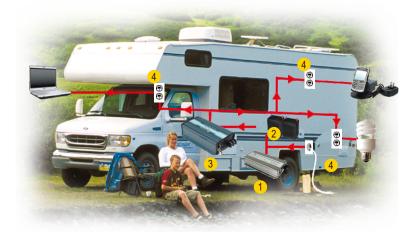
■ TYPICAL APPLICATION



- 1 Battery Bank
- 2 Off-Grid DC/AC Solar Inverter (NTU 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 (NTU series)



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

■ INSTALLATION MANUAL

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