





AC output side

















· Power tools

Vehicle

Yacht

Applications

Portable equipment

· Wireless network



· Home and office appliance

· Off-grid solar power system

· Telecom or datacom system







IEC62368-1 BS EN/EN62368-1 (for 112/124 type GFCl only)

Features

- · Built-in UPS function (AC by-pass)
- True sine wave output (THD<3%)
- · High surge power up to 2000W
- · 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

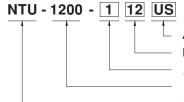
(IRC1, IRC2, IRC3 accessory sold separately, please refer to: https://www.meanwell.com/webapp/product/search.aspx?prod=IRC1)

- 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

NTU-1200 is a 1200W 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, 2000W peak power, adjustable AC output voltage and frequency, -25~+70℃ wide operating temperature range, complete protection features, and etc. Combined with batteries, the NTU-1200 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













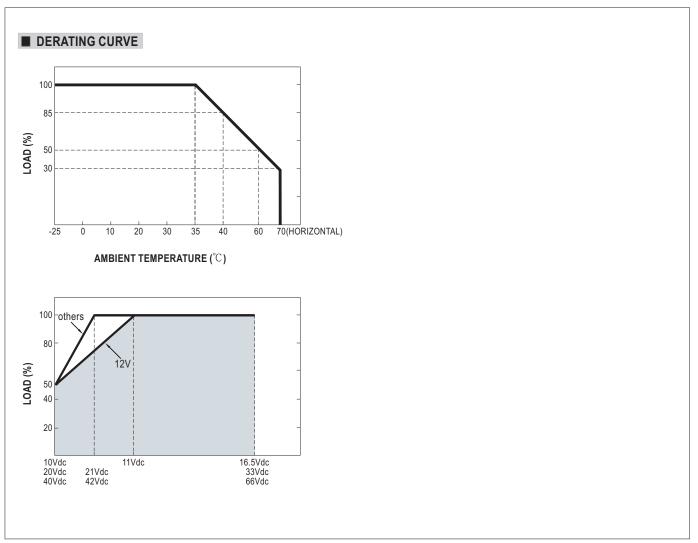
)II IO	ATION		NTU-1200-112	NTU-1200-124	NTU-1200-148	NTU 1200 212	NTU 1200 2	24 NTU-1200-248
MODEL NO.						N10-1200-146			24L N10-1200-246L
			FD/C	= US, GFCI, UI	V		= EU, CN, AU,	UK, UN	
		, ,		1200W					
				1380W 1800W					
		SURGE POWER(10 Sec.)		2000W					
				Default setting set at 110VAC Default setting set at 230VAC					
C OL	JTPUT	AC VOLTAGE		100 / 110 / 115 / 120Vac selectable by DIP S.W 200 / 220 / 230 / 240Vac selectable by DIP S.W					
				Default setting set at 60±0.1Hz			Default setting set at		-,
		FREQUENCY	1		50/60Hz selectable by DIP S.W 50/60Hz selectable by DIP S.W				
		WAVEFORM	Note.1	True sine wave (THD<3%)					
		AC REGULA	TION	±3.0% at rated outp	ut voltage				
		FRONT PANI	EL LED	Please see page 5					
		DC VOLTAGI	E	12Vdc	24Vdc	48Vdc	12Vdc	24Vdc	48Vdc
		VOLTAGE RA	NGE (Typ.)	10 ~ 16.5Vdc	20 ~ 33Vdc	40 ~ 66Vdc	10 ~ 16.5Vdc	20 ~ 33Vdc	40 ~ 66Vdc
		DC CURREN	T (Typ.)	120A	60A	30A	120A	60A	30A
		NO LOAD	NON-SAVING MODE	15W			25W		
OC IN	IPUT	DISSPATION (Typ.)	SAVING MODE	Default disable, auto	detect AC output load	≤10W will be change	d to saving mode		
				<8W					
			URRENT DRAW	≦1mA					
		EFFICIENCY			90%	91%	90%	92%	93%
		BATTERY TY		Lead Acid or li-ion	140.4+0	054+0	10041	40.4 00	05.110
		FUSE (INTER		40A*4	40A*2	25A*2	40A*4	40A*2	25A*2
		1.000	ALARM	11±0.3Vdc	22±0.5Vdc	44±1Vdc	11±0.3Vdc	22±0.5Vdc	44±1Vdc
	5	LOW	SHUTDOWN	10±0.3Vdc	20±0.5Vdc	40±1Vdc	10±0.3Vdc	20±0.5Vdc	40±1Vdc
	INPUT		RESTART	12.5±0.3Vdc	25±0.5Vdc	50±1Vdc	12.5±0.3Vdc	25±0.5Vdc	50±1Vdc
z	20	nich	ALARM	15.5±0.3Vdc 16.5±0.3Vdc	31±0.5Vdc	62±1Vdc	15.5±0.3Vdc	31±0.5Vdc 33±0.5Vdc	62±1Vdc
ROTECTION	-	HIGH	SHUTDOWN	15±0.3Vdc	33±0.5Vdc 30±0.5Vdc	66±1Vdc 60±1Vdc	16.5±0.3Vdc 15±0.3Vdc	33±0.5Vdc	66±1Vdc 60±1Vdc
Œ		BAT. POLAR		By internal fuse oper		60 ± 1 vuc	15±0.5vdc	30±0.5Vuc	60 ± 1 vac
R.		OVER TEMP							
	_	OUTPUT SH			it down o/p voltage, re it down o/p voltage, re				
	OUTPUT	001101311	OK I		180 sec., 115% ~ 1509	·			
	5	OVER LOAD	(Typ.)						
	AC	CIRCUIT BREAKER		Protection type : Shut down o/p voltage, re-power on to recover 15A 10A					
		GFCI PROCTECTION		-	"AC socket, by request)	None	100		
				Power ON-OFF remote control by front panel dry contact connector(by RELAY), Open: Normal work; Short: Remote off					
FLINC	TION			Remote controller sold separately, Order No.: IRC1,IRC2,IRC3					
		RS-232 COMMUNICATION				fer to page 4 for more	details)		
		AC INPUT RANGE FREQUENCY RANGE		100/110/115/120Vac±16%, recover±13% 200/220/230/240Vac±16%, recover±13%					
AC UI MODI				45 ~ 65Hz					
WIODI	_	TRASFER TIME(Typ.)		10ms inverter AC by pass					
		WORKING T	EMP.	-25 ~ +70°C (Refer to "Derating curve")					
ENVIRO	NMENT	WORKING H	UMIDITY	20% ~ 90% RH non-condensing					
	_	STORAGE TEMP., HUMIDITY							
		VIBRATION		10 ~ 500Hz, 3G 10min./1cycle, 60min. each along X, Y, Z axes CB IEC62368-1,Dekra BS EN/EN62368-1,UL458, E13,EAC TP TC 004 approved; Design refer to AS/NZS 62368.1					
		SAFETY STA	ANDARDS					d; Design refe	r to AS/NZS 62368.1
		MUTHOTAND	VOLTAGE	,		cket" table for more P:3.0KVac AC O/P			
		WITHSTAND	VOLIAGE	Parameter	Standard	P.S.UKVAC AC O/P	· rG. I.okvac		Test Level / Note
				Parameter		48 only(expect for Typ	a LIM)		Class A
		EMC EMISSI	ON	Radiated		71 71	,	Tyne-LINI)	Class A
		LING LINGSI			BS EN/EN55032(CISPR32) for 212,224,248 only(expect for Type-UN) FCC for 112,124,148 only(expect for Type-UN)		Class A		
				Conducted			Class A Class A		
				Harmonic Current	BS EN/EN61000-	· · · · · · · · · · · · · · · · · · ·	1,2 10 0111) (0.0001101	.,,,,	Class A
SAFE	TY			Voltage Flicker	BS EN/EN61000-				
&				BS EN/EN55024, B	S EN/EN55035				
EM (Note				Parameter	Standard			Test Level /	Note
(NOTE	·· · ·			ESD	BS EN/EN61000-	-4-2		Level 3, 8KV	air ; Level 2, 4KV contact
				Radiated	BS EN/EN61000-	-4-3		Level 2	
		EMC IMMUN	ITV	EFT / Burst	BS EN/EN61000-	BS EN/EN61000-4-4 Level 2, 1KV			
		EINIC IIVIIVIUN	111	Surge	BS EN/EN61000-4-5 Level 3, 1KV/Line-Line 2KV/Lin		Line-Line 2KV/Line-Earth		
				Conducted	BS EN/EN61000-4-6 Level 2				
				Magnetic Field BS EN/EN61000-4-8 Level 1					
				Voltage Dips and RS EN/EN61000-4-11 >95% dip 0.5 periods, 30% dip 25 period					
		MTDE		Interruptions >95% interruptions 250 periods					
	-00	MTBF			Telcordia TR/SR-332	(Bellcore); 58.3K	nrs min. MIL-HDB	(-217F (25°C)	
OTHE	:KS	DIMENSION		333*184*70mm (L*V					
		PACKING	AO wo mid-it	3.3Kg; 2pcs/ 7.6Kg/		lead at 40 EV 1 (CT)	da/E0V/d- : · · ·		
						load at 12.5Vdc/25V of ambient tempe			
NOTE		3.Internal p	re-start circuit, the	e setup time is 8s.		,		,	
									tem complies with the
		EMC directives. For guidan (as available on http://www		nce on how to perform these EMC tests, please refer to "EMI testing of component power supplies." v.meanwell.com)					
1012			ble on http://www	/.meanwell.com)					







■ AC Output Socket MODEL NO. NTU-1200-112 NTU-1200-124 🔲 NTU-1200-148 NTU-1200-212 NTU-1200-224 NTU-1200-248 00 (8) 0 Socket type TYPE-UK TYPE-US TYPE-GFCI TYPE-UN TYPE-EU TYPE-CN TYPE-AU TYPE-UN In Stock In Stock In Stock In Stock By request In Stock By request By request Country USA USA UNIVERSAL **EUROPE** CHINA AUSTRALIA UNIVERSAL U.K CB (E₁₃) CB F© CB F© EAC CB (€13) DEKRA [H[C € LK (E13) None DEKRA 🙈 Certificate c**ŲL** us DEKRA EMIC€K







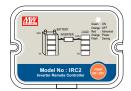


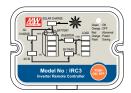


■ IRC1/2/3 Remote Controller (Accessory sold seperately)

- 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.



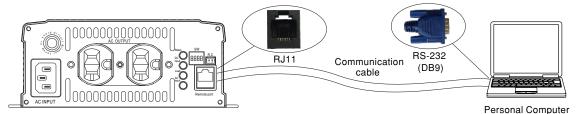




Please refer to for more detail: https://www.meanwell.com/webapp/product/search.aspx?prod=IRC1

■ Support RS-232 Communication

• The internal data of single NTU-1200 can be read through RS-232.



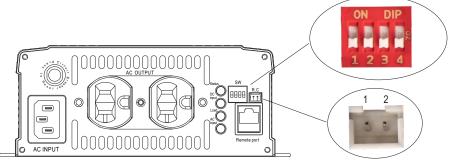
- * Please refer to for more detail: http://www.meanwell.com/manual.html

■ 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: Saving mode					
OFF	ON: 110Vac or 220Vac	ON:50Hz						
ON	OFF: 115Vac or 230Vac	OFF: 60Hz	OFF: Non-Saving mode					
ON	ON: 120Vac or 240Vac	OFF. 00M2	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
DO In ort	• 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			
AC IIIput	- * -	Utility error			
	0 1	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

Light off

Flash

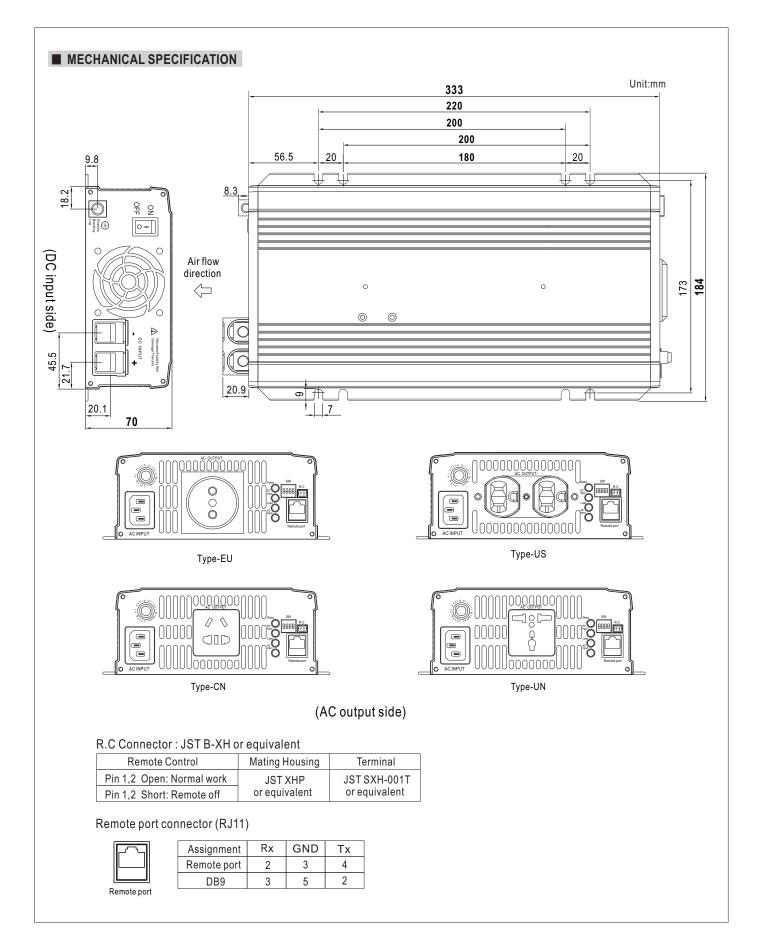




















■ Accessory List

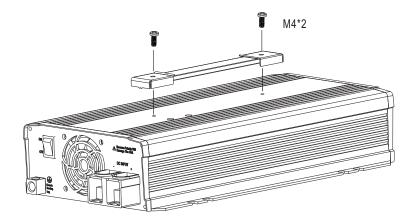
X Communication cable (Optional accessory, Power inverter and Communication cable should ordered seperately)

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

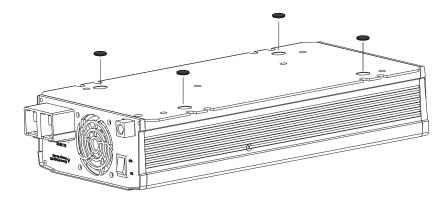
X Carry handle (Optional accessory, Power inverter and Pull handle should ordered seperately)

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





2 Foot pad











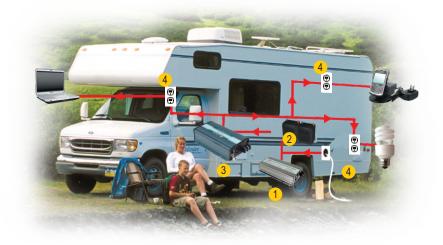
■ TYPICAL APPLICATION



- 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 DC/AC Power Inverter (NTU series)
- 5 AC Outlet



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





