











AC output side





















Features

- Built-in UPS function (AC by-pass)
- True sine wave output (THD<3%)</li>
- High surge power up to 4400W
- Temperature controlled cooling fan
- AC output voltage and frequency selectable by DIP S.W
- -25°C ~+70°C wide operating temperature

UI 458

- · 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

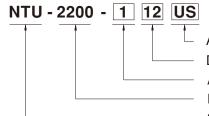
(IRC1, IRC2, IRC3 accessory sold separately, please refer to: https://www.meanwell.com/webapp/product/search.aspx?prod=IRC1)

- 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-2200 is a 2200W highly reliable off-grid true sine wave DC-AC power inverter with built-in UPS function. 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, 4400W 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-2200 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, TB 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

### · Home and office appliance · Power tools

Applications

- Portable equipment
- Vehicle
- Yacht
- Off-grid solar power system

#### GTIN CODE

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

# 2200W High Reliable True Sine Wave with UPS DC-AC Power Inverter NTU-2200 series

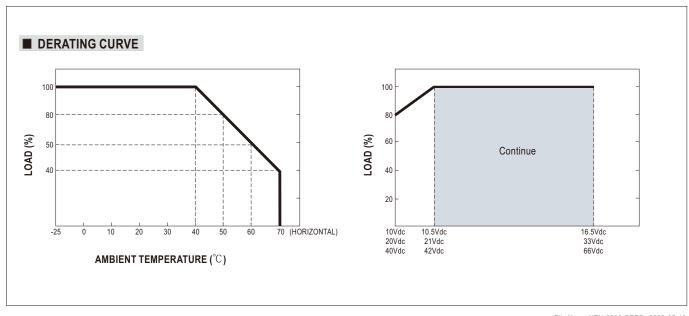
	MODEL NO.		NTU-2200-112	NTU-2200-124L	☐ NTU-2200-148☐	N I U-2200-212L	<b>_</b>  NTU-2200-2	224 NTU-2200-24	
			$\square$ = US, UN, TB			= EU, CN, Al	J, UK, UN,TB		
, ,		2200W			2200W				
		OVER RATED POWER(3 Min.)		2530W			2530W		
		PEAK POWER(10 Sec.) SURGE POWER(30 Cycles)		3300W	3300W 3300W				
				4400W	1400W 4400W				
		AC VOLTAGE		Factory setting set a	t 110VAC		Factory setting se	t at 230VAC	
ou	TPUT	AC VOLIAGE	!	100 / 110 / 115 / 120\	/ac selectable by DI	P S.W	200 / 220 / 230 / 2	40Vac selectable	by DIP S.W
		EDEQUENOV	,	Factory setting set a	t 60±0.1Hz		Factory setting se	t at 50 ± 0.1Hz	
		FREQUENCY		50/60Hz selectable b	by DIP S.W		50/60Hz selectabl	e by DIP S.W	
		WAVEFORM	Note.1	True sine wave (THD	)<3%)		'		
		AC REGULAT	TION	±3.0% at rated inpu	t voltage				
		FRONT PANE	L LED	Please see page 5					
		DC VOLTAGE		12Vdc	24Vdc	48Vdc	12Vdc	24Vdc	48Vdc
		VOLTAGE RAI		10 ~ 16.5Vdc	20 ~ 33Vdc	40 ~ 66Vdc	10 ~ 16.5Vdc	20 ~ 33Vdc	40 ~ 66Vdc
		DC CURRENT		250A	120A	60A	250A	120A	60A
		NO LOAD DIS			1	ad≦10W will be change		12071	00/1
C IN	PUT	(SAVING MOD		<15W	uotootii to output iot	ad = 1011 till bo olidlige	a to daving mode		
			URRENT DRAW	≦2mA					
					90%	91%	0.09/	92%	020/
		EFFICIENCY	( ) ( )	Lead Acid or li-ion	JU /0	31/0	90%	3270	93%
		BATTERY TY			40.0 * 4	25.4*4	40.4*0	404*4	054*4
		FUSE (INTER	,	40A*8	40A*4	25A*4	40A*8	40A*4	25A*4 44±1Vdc
		1.04	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	40±1Vdc
	INPUT		RESTART	12.5±0.3Vdc	25±0.5Vdc	50±1Vdc	12.5±0.3Vdc	25±0.5Vdc	50±1Vdc
_	20		ALARM	15.5±0.3Vdc	31±0.5Vdc	62±1Vdc	15.5±0.3Vdc	31±0.5Vdc	62±1Vdc
PROTECTION		HIGH	SHUTDOWN	16.5±0.3Vdc	33±0.5Vdc	66±1Vdc	16.5±0.3Vdc	33±0.5Vdc	66±1Vdc
띮			RESTART	15±0.3Vdc	30±0.5Vdc	60±1Vdc	15±0.3Vdc	30±0.5Vdc	60±1Vdc
꿆		BAT. POLARI		By internal fuse oper					
		OVER TEMPE	RATURE			re-power on to recover			
	Ď	OUTPUT SHO	DRT	**		re-power on to recover			
	OUTPUT	OVER LOAD	(Tvn )	105 ~ 115% load for	105 ~ 115% load for 180 sec., 115% ~ 150% load for 10 sec.				
		OVER EOAD	(1) P./	Protection type: Shut down o/p voltage, re-power on to recover					
AC	ТВ ТҮРЕ		UL458 (Only for "TB"	type AC socket)		None			
		REMOTE	CONNECTOR	Power ON-OFF rem	Power ON-OFF remote control by front panel dry contact connector(by RELAY), Open: Normal work; Short: Remote off				
UNC	TION	CONTROL	ACCESSORY	Remote controller so	old separately, Order	No.: IRC1,IRC2,IRC3			
		RS-232 COM	MUNICATION	RS-232 ~ RJ11 Type connector (Please refer to page 4 for more details)					
		AC INPUT RANGE		100/110/115/120Vac±16%, recover±13% 200/220/230/240Vac±16%, recover±13%					
A C LIDC		FREQUENCY RANGE			7 ± 10 /0, 1000 vc1 ± 1			40 - 1070, 100011	
				45 ~ 65Hz	J = 10 /0, 1000 vol = 1			40 - 10 /0, 100011	
			RANGE	45 ~ 65Hz 10ms inverter	,				
		FREQUENCY	RANGE ME(Typ.)	10ms inverter	AC by pass o "Derating curve")				
MODE	<b>.</b>	FREQUENCY TRASFER TIM	RANGE ME(Typ.) MP.	10ms inverter	AC by pass o "Derating curve")			40-10/01/1000	
MODE	<b>.</b>	FREQUENCY TRASFER TIM WORKING TE WORKING HU	RANGE ME(Typ.) MP.	10ms inverter	AC by pass o "Derating curve") condensing	I non-condensing			
AC UF MODE ENVIRO	<b>.</b>	FREQUENCY TRASFER TIM WORKING TE WORKING HU	RANGE ME(Typ.) MP. JMIDITY	10ms inverter	AC by pass o "Derating curve") condensing +158°F, 10 ~ 95% RF	I non-condensing each along X, Y, Z axes			
MODE	<b>.</b>	FREQUENCY TRASFER TIM WORKING TE WORKING HU STORAGE TE VIBRATION	RANGE ME(Typ.) EMP. JMIDITY EMP., HUMIDITY	10ms inverter	AC by pass o "Derating curve") condensing +158°F, 10 ~ 95% RH nin./1cycle, 60min. o ekra Seal BS EN/El	each along X, Y, Z axes N62368-1,UL458, E13	B,EAC TP TC 004,A	· · · · · · · · · · · · · · · · · · ·	
MODE	<b>.</b>	FREQUENCY TRASFER TIM WORKING TE WORKING HU STORAGE TE VIBRATION SAFETY STAI	RANGE ME(Typ.) MP. JMIDITY MP., HUMIDITY NDARDS	10ms inverter	AC by pass o "Derating curve") condensing +158°F, 10 ~ 95% RH nin./1cycle, 60min. o ekra Seal BS EN/El xt page"AC output	each along X, Y, Z axes N62368-1,UL458, E13 socket" table for more	3,EAC TP TC 004,A details)	· · · · · · · · · · · · · · · · · · ·	
MODE	<b>.</b>	FREQUENCY TRASFER TIM WORKING TE WORKING HU STORAGE TE VIBRATION	RANGE ME(Typ.) MP. JMIDITY MP., HUMIDITY NDARDS	10ms inverter	AC by pass o "Derating curve") condensing 158°F, 10 ~ 95% Rh nin./1cycle, 60min. ekra Seal BS EN/El xt page"AC output (VAC DC I/P - AC	each along X, Y, Z axes N62368-1,UL458, E13	3,EAC TP TC 004,A details)	· · · · · · · · · · · · · · · · · · ·	approved
MODE	<b>.</b>	FREQUENCY TRASFER TIM WORKING TE WORKING HU STORAGE TE VIBRATION SAFETY STAI	RANGE ME(Typ.) MP. JMIDITY MP., HUMIDITY NDARDS	10ms inverter	AC by pass o "Derating curve") condensing 158°F, 10 ~ 95% Rh nin./1cycle, 60min. o ekra Seal BS EN/El xt page "AC output (VAC DC I/P - AC Standard	each along X, Y, Z axes N62368-1,UL458, E13 socket" table for more O/P:3.0KVAC AC O/I	B,EAC TP TC 004,A details) P - FG:1.5KVAC	· · · · · · · · · · · · · · · · · · ·	approved  Test Level / Note
MODE	<b>.</b>	FREQUENCY TRASFER TIM WORKING TE WORKING HU STORAGE TE VIBRATION SAFETY STAI	RANGE ME(Typ.) MP. JMIDITY MP., HUMIDITY NDARDS	10ms inverter	AC by pass o "Derating curve") condensing h158°F, 10 ~ 95% Rh nin./1cycle, 60min. bkra Seal BS EN/E xt page"AC output kVAC DC I/P - AC Standard FCC for 112,124	each along X, Y, Z axes N62368-1,UL458, E13 socket" table for more O/P:3.0KVAC AC O/I	B,EAC TP TC 004, A details) P - FG:1.5KVAC e-UN)	AS/NZS 62368.1	approved
MODE	<b>.</b>	FREQUENCY TRASFER TIM WORKING TE WORKING HU STORAGE TE VIBRATION SAFETY STAI	RANGE ME(Typ.) EMP. JMIDITY MP., HUMIDITY NDARDS VOLTAGE	10ms inverter	AC by pass o "Derating curve") condensing h158°F, 10 ~ 95% Rh nin./1cycle, 60min. bkra Seal BS EN/E xt page"AC output kVAC DC I/P - AC Standard FCC for 112,124	each along X, Y, Z axes N62368-1,UL458, E13 socket" table for more O/P:3.0KVAC AC O/I	B,EAC TP TC 004, A details) P - FG:1.5KVAC e-UN)	AS/NZS 62368.1	approved  Test Level / Note
MODE	<b>.</b>	FREQUENCY TRASFER TIM WORKING TE WORKING HL STORAGE TE VIBRATION SAFETY STAL WITHSTAND	RANGE ME(Typ.) EMP. JMIDITY MP., HUMIDITY NDARDS VOLTAGE	10ms inverter —— -25 ~ +70°C (Refer to 20% ~ 90% RH non30 ~ +70°C / -22 ~ -1 10 ~ 500Hz, 3G 10m CB IEC62368-1, De (Please refer to ne DC I/P - AC I/P:3.0k Parameter  Radiated	AC by pass o "Derating curve") condensing 158°F, 10 ~ 95% RF nin./1cycle, 60min. okra Seal BS EN/E xt page "AC output XVAC DC I/P - AC Standard FCC for 112,124 BS EN/EN5503 FCC for 112,124	each along X, Y, Z axes N62368-1,UL458, E13 socket" table for more O/P:3.0KVAC AC O/I ,148 only(expect for Typ 2(CISPR32) for 212,22 ,148 only(expect for Typ	B,EAC TP TC 004, A details) P - FG:1.5KVAC e-UN) 24,248 only(expect e-UN)	AS/NZS 62368.1	approved  Test Level / Note  Class A
MODE	<b>.</b>	FREQUENCY TRASFER TIM WORKING TE WORKING HL STORAGE TE VIBRATION SAFETY STAL WITHSTAND	RANGE ME(Typ.) EMP. JMIDITY MP., HUMIDITY NDARDS VOLTAGE	10ms inverter	AC by pass o "Derating curve") condensing 158°F, 10 ~ 95% RF nin./1cycle, 60min. okra Seal BS EN/E xt page "AC output XVAC DC I/P - AC Standard FCC for 112,124 BS EN/EN5503 FCC for 112,124	each along X, Y, Z axes N62368-1,UL458, E13 socket" table for more O/P:3.0KVAC AC O/I ,148 only(expect for Typ 2(CISPR32) for 212,22	B,EAC TP TC 004, A details) P - FG:1.5KVAC e-UN) 24,248 only(expect e-UN)	AS/NZS 62368.1	approved  Test Level / Note Class A Class A
MODE	NMENT	FREQUENCY TRASFER TIM WORKING TE WORKING HL STORAGE TE VIBRATION SAFETY STAL WITHSTAND	RANGE ME(Typ.) EMP. JMIDITY MP., HUMIDITY NDARDS VOLTAGE	10ms inverter —— -25 ~ +70°C (Refer to 20% ~ 90% RH non30 ~ +70°C / -22 ~ -1 10 ~ 500Hz, 3G 10m CB IEC62368-1, De (Please refer to ne DC I/P - AC I/P:3.0k Parameter  Radiated	AC by pass o "Derating curve") condensing 158°F, 10 ~ 95% RF nin./1cycle, 60min. okra Seal BS EN/E xt page "AC output XVAC DC I/P - AC Standard FCC for 112,124 BS EN/EN5503 FCC for 112,124	each along X, Y, Z axes N62368-1,UL458, E13 socket" table for more O/P:3.0KVAC AC O/I ,148 only(expect for Typ 2(CISPR32) for 212,22 ,148 only(expect for Typ 2(CISPR32) for 212,22	B,EAC TP TC 004, A details) P - FG:1.5KVAC e-UN) 24,248 only(expect e-UN)	AS/NZS 62368.1	approved  Test Level / Note Class A Class A Class A
NVIRO	E	FREQUENCY TRASFER TIM WORKING TE WORKING HL STORAGE TE VIBRATION SAFETY STAL WITHSTAND	RANGE ME(Typ.) EMP. JMIDITY MP., HUMIDITY NDARDS VOLTAGE	10ms inverter —— -25 ~ +70°C (Refer to 20% ~ 90% RH non30 ~ +70°C / -22 ~ 10 ~ 500Hz, 3G 10n CB IEC62368-1, De (Please refer to ne DC I/P - AC I/P:3.0)  Parameter  Radiated  Conducted	AC by pass o "Derating curve") condensing +158°F, 10 ~ 95% RF nin./1cycle, 60min. o ekra Seal BS EN/EI ext page "AC output ext CVAC DC I/P - AC  Standard  FCC for 112,124 BS EN/EN5503  FCC for 112,124 BS EN/EN5503	each along X, Y, Z axes N62368-1,UL458, E13 socket" table for more O/P:3.0KVAC AC O/I ,148 only(expect for Typ 2(CISPR32) for 212,22 ,148 only(expect for Typ 2(CISPR32) for 212,22	B,EAC TP TC 004, A details) P - FG:1.5KVAC e-UN) 24,248 only(expect e-UN)	AS/NZS 62368.1	approved  Test Level / Note Class A Class A Class A Class A
NVIRO	E	FREQUENCY TRASFER TIM WORKING TE WORKING HL STORAGE TE VIBRATION SAFETY STAL WITHSTAND	RANGE ME(Typ.) EMP. JMIDITY MP., HUMIDITY NDARDS VOLTAGE	10ms inverter —— -25 ~ +70°C (Refer to 20% ~ 90% RH non30 ~ +70°C / -22 ~ - 10 ~ 500Hz, 3G 10n CB IEC62368-1, De (Please refer to ne DC I/P - AC I/P:3.0) Parameter Radiated Conducted Harmonic Current	AC by pass o "Derating curve") condensing 1158°F, 10 ~ 95% RF- nin./1cycle, 60min. o ekra Seal BS EN/E ext page"AC output (VAC DC I/P - AC  Standard  FCC for 112,124 BS EN/EN5503 FCC for 112,124 BS EN/EN5503 BS EN/EN6100 BS EN/EN6100	each along X, Y, Z axes N62368-1,UL458, E13 socket" table for more O/P:3.0KVAC AC O/I ,148 only(expect for Typ 2(CISPR32) for 212,22 ,148 only(expect for Typ 2(CISPR32) for 212,22	B,EAC TP TC 004, A details) P - FG:1.5KVAC e-UN) 24,248 only(expect e-UN)	AS/NZS 62368.1	approved  Test Level / Note Class A Class A Class A Class A Class A
NVIRO  SAFE & EMC	E	FREQUENCY TRASFER TIM WORKING TE WORKING HL STORAGE TE VIBRATION SAFETY STAL WITHSTAND	RANGE ME(Typ.) EMP. JMIDITY MP., HUMIDITY NDARDS VOLTAGE	10ms inverter —— -25 ~ +70°C (Refer to 20% ~ 90% RH non30 ~ +70°C / -22 ~ - 10 ~ 500Hz, 3G 10m CB IEC62368-1, De (Please refer to ne DC I/P - AC I/P:3.0k Parameter Radiated  Conducted  Harmonic Current Voltage Flicker	AC by pass o "Derating curve") condensing 1158°F, 10 ~ 95% RF- nin./1cycle, 60min. o ekra Seal BS EN/E ext page"AC output (VAC DC I/P - AC  Standard  FCC for 112,124 BS EN/EN5503 FCC for 112,124 BS EN/EN5503 BS EN/EN6100 BS EN/EN6100	each along X, Y, Z axes N62368-1,UL458, E13 socket" table for more O/P:3.0KVAC AC O/I ,148 only(expect for Typ 2(CISPR32) for 212,22 ,148 only(expect for Typ 2(CISPR32) for 212,22	B,EAC TP TC 004, A details) P - FG:1.5KVAC e-UN) 24,248 only(expect e-UN)	AS/NZS 62368.1	approved  Test Level / Note  Class A  Class A  Class A  Class A  Class A
NVIRO  AFE & EMC	E	FREQUENCY TRASFER TIM WORKING TE WORKING HU STORAGE TE VIBRATION SAFETY STAI WITHSTAND EMC EMISSIO	RANGE ME(Typ.) EMP. JMIDITY EMP., HUMIDITY NDARDS VOLTAGE	10ms inverter —— -25 ~ +70°C (Refer to 20% ~ 90% RH non30 ~ +70°C / -22 ~ -1 10 ~ 500Hz, 3G 10m CB IEC62368-1, De (Please refer to ne DC I/P - AC I/P:3.0k Parameter  Radiated  Conducted  Harmonic Current Voltage Flicker  BS EN/EN55024, B	AC by pass o "Derating curve") condensing 1158°F, 10 ~ 95% RF- nin./1cycle, 60min. o ekra Seal BS EN/E ext page "AC output (VAC DC I/P - AC  Standard  FCC for 112,124 BS EN/EN5503 FCC for 112,124 BS EN/EN5503 BS EN/EN6100 BS EN/EN6100 S EN/EN55035	each along X, Y, Z axes N62368-1, UL458, E13 socket" table for more O/P:3.0KVAC AC O/I ,148 only(expect for Typ 2(CISPR32) for 212,22 ,148 only(expect for Typ 2(CISPR32) for 212,22 0-3-2 0-3-3	B,EAC TP TC 004, A details) P - FG:1.5KVAC e-UN) 24,248 only(expect e-UN)	for Type-UN)  for Type-UN)  Test Level /	approved  Test Level / Note Class A Class A Class A Class A Class A
AFE & EMC	E	FREQUENCY TRASFER TIM WORKING TE WORKING HL STORAGE TE VIBRATION SAFETY STAL WITHSTAND	RANGE ME(Typ.) EMP. JMIDITY EMP., HUMIDITY NDARDS VOLTAGE	10ms inverter —— -25 ~ +70°C (Refer to 20% ~ 90% RH non30 ~ +70°C / -22 ~ -1 10 ~ 500Hz, 3G 10m CB IEC62368-1, De (Please refer to ne DC I/P - AC I/P:3.0k Parameter  Radiated  Conducted  Harmonic Current Voltage Flicker  BS EN/EN55024, B Parameter	AC by pass o "Derating curve") condensing 1158°F, 10 ~ 95% RF- nin./1cycle, 60min. o ekra Seal BS EN/E xt page "AC output (VAC DC I/P - AC  Standard  FCC for 112,124 BS EN/EN5503 FCC for 112,124 BS EN/EN5503 BS EN/EN6100 BS EN/EN6100 SEN/EN55035 Standard	each along X, Y, Z axes N62368-1, UL458, E13 socket" table for more O/P:3.0KVAC AC O/I ,148 only(expect for Typ 2(CISPR32) for 212,22 ,148 only(expect for Typ 2(CISPR32) for 212,22 0-3-2 0-3-3	B,EAC TP TC 004, A details) P - FG:1.5KVAC e-UN) 24,248 only(expect e-UN)	for Type-UN)  for Type-UN)  Test Level /	approved  Test Level / Note  Class A  Class A  Class A  Class A  Class A
NVIRO  SAFE & EMC	E	FREQUENCY TRASFER TIM WORKING TE WORKING HU STORAGE TE VIBRATION SAFETY STAI WITHSTAND EMC EMISSIO	RANGE ME(Typ.) EMP. JMIDITY EMP., HUMIDITY NDARDS VOLTAGE	10ms inverter	AC by pass o "Derating curve") condensing 1158°F, 10 ~ 95% RF- nin./1cycle, 60min. o ekra Seal BS EN/E ext page "AC output (VAC DC I/P - AC  Standard  FCC for 112,124 BS EN/EN5503 FCC for 112,124 BS EN/EN55035 BS EN/EN6100 BS EN/EN55035  Standard BS EN/EN6100 BS EN/EN6100	each along X, Y, Z axes N62368-1, UL458, E13 socket" table for more O/P:3.0KVAC AC O/I ,148 only(expect for Typ 2(CISPR32) for 212,22 ,148 only(expect for Typ 2(CISPR32) for 212,22 0-3-2 0-3-3	B,EAC TP TC 004, A details) P - FG:1.5KVAC e-UN) 24,248 only(expect e-UN)	for Type-UN)  for Type-UN)  Test Level / Level 3, 8KV	approved  Test Level / Note Class A
AFE & EMC	E	FREQUENCY TRASFER TIM WORKING TE WORKING HU STORAGE TE VIBRATION SAFETY STAI WITHSTAND EMC EMISSIO	RANGE ME(Typ.) EMP. JMIDITY EMP., HUMIDITY NDARDS VOLTAGE	10ms inverter	AC by pass o "Derating curve") condensing r158°F, 10 ~ 95% RF nin./1cycle, 60min. r ekra Seal BS EN/E xt page "AC output tVAC DC I/P - AC  Standard FCC for 112,124 BS EN/EN5503 FCC for 112,124 BS EN/EN5503 SEN/EN55035 Standard BS EN/EN6100 BS EN/EN6100 BS EN/EN6100 BS EN/EN6100 BS EN/EN6100 BS EN/EN6100	each along X, Y, Z axes N62368-1, UL458, E13 socket" table for more O/P:3.0KVAC AC O/I ,148 only(expect for Typ 2(CISPR32) for 212,22 ,148 only(expect for Typ 2(CISPR32) for 212,22 0-3-2 0-3-3  0-4-2 0-4-3 0-4-4	B,EAC TP TC 004, A details) P - FG:1.5KVAC e-UN) 24,248 only(expect e-UN)	for Type-UN)  Test Level / Level 3, 8KV Level 2 Level 2, 1KV	approved  Test Level / Note Class A
AFE & EMC	E	FREQUENCY TRASFER TIM WORKING TE WORKING HU STORAGE TE VIBRATION SAFETY STAI WITHSTAND EMC EMISSIO	RANGE ME(Typ.) EMP. JMIDITY EMP., HUMIDITY NDARDS VOLTAGE	10ms inverter —— -25 ~ +70°C (Refer to 20% ~ 90% RH non30 ~ +70°C / -22 ~ 10 ~ 500Hz, 3G 10n CB IEC62368-1, Do (Please refer to ne DC I/P - AC I/P:3.0h Parameter  Radiated  Conducted  Harmonic Current Voltage Flicker  BS EN/EN55024, B Parameter  ESD  Radiated  EFT / Burst	AC by pass o "Derating curve") condensing r158°F, 10 ~ 95% RF nin./1cycle, 60min. r ekra Seal BS EN/E xt page"AC output xt page xt	each along X, Y, Z axes N62368-1, UL458, E13 socket" table for more O/P:3.0KVAC AC O/I  ,148 only(expect for Typ 2(CISPR32) for 212,22 ,148 only(expect for Typ 2(CISPR32) for 212,22 0-3-2 0-3-3  0-4-2 0-4-3 0-4-4 0-4-5	B,EAC TP TC 004, A details) P - FG:1.5KVAC e-UN) 24,248 only(expect e-UN)	for Type-UN)  Test Level / Level 2, 1KV	approved  Test Level / Note Class A
NVIRO  AFE & EMC	E	FREQUENCY TRASFER TIM WORKING TE WORKING HU STORAGE TE VIBRATION SAFETY STAI WITHSTAND EMC EMISSIO	RANGE ME(Typ.) EMP. JMIDITY EMP., HUMIDITY NDARDS VOLTAGE	10ms inverter —— -25 ~ +70°C (Refer to 20% ~ 90% RH non30 ~ +70°C / -22 ~ 4 10 ~ 500Hz, 3G 10n CB IEC62368-1, De (Please refer to ne DC I/P - AC I/P:3.0h Parameter  Radiated  Conducted  Harmonic Current Voltage Flicker  BS EN/EN55024, B Parameter  ESD  Radiated  EFT / Burst  Surge	AC by pass o "Derating curve") condensing r158°F, 10 ~ 95% RF nin./1cycle, 60min. o ekra Seal BS EN/EI ext page "AC output ext	each along X, Y, Z axes N62368-1, UL458, E13 socket" table for more O/P:3.0KVAC AC O/I ,148 only(expect for Typ 2(CISPR32) for 212,22 ,148 only(expect for Typ 2(CISPR32) for 212,22 0-3-2 0-3-3 0-4-2 0-4-3 0-4-5 0-4-6	B,EAC TP TC 004, A details) P - FG:1.5KVAC e-UN) 24,248 only(expect e-UN)	for Type-UN)  Test Level / Level 3, 8KV Level 2 Level 2, 1KV Level 3, 1KV	approved  Test Level / Note Class A
AFE & EMC	E	FREQUENCY TRASFER TIM WORKING TE WORKING HU STORAGE TE VIBRATION SAFETY STAI WITHSTAND EMC EMISSIO	RANGE ME(Typ.) EMP. JMIDITY EMP., HUMIDITY NDARDS VOLTAGE	10ms inverter —— -25 ~ +70°C (Refer to 20% ~ 90% RH non30 ~ +70°C / -22 ~ - 10 ~ 500Hz, 3G 10n CB IEC62368-1, De (Please refer to ne DC I/P - AC I/P:3.0) Parameter  Radiated  Conducted  Harmonic Current Voltage Flicker  BS EN/EN55024, B Parameter  ESD  Radiated  EFT / Burst  Surge  Conducted	AC by pass o "Derating curve") condensing 1158°F, 10 ~ 95% RF- nin./1cycle, 60min. o ekra Seal BS EN/E xt page "AC output (VAC DC I/P - AC  Standard  FCC for 112,124 BS EN/EN5503 FCC for 112,124 BS EN/EN6100	each along X, Y, Z axes N62368-1, UL458, E13 socket" table for more O/P:3.0KVAC AC O/I  ,148 only(expect for Typ 2(CISPR32) for 212,22 ,148 only(expect for Typ 2(CISPR32) for 212,22 0-3-2 0-3-3  0-4-2 0-4-3 0-4-4 0-4-5 0-4-6 0-4-8	B,EAC TP TC 004, A details) P - FG:1.5KVAC e-UN) 24,248 only(expect e-UN)	for Type-UN)  Test Level 7 Level 3, 8KV Level 2 Level 2, 1KV Level 3, 1KV Level 2 Level 2 Level 2 Level 1	approved  Test Level / Note Class A
NVIRO  AFE & EMC	E	FREQUENCY TRASFER TIM WORKING TE WORKING HU STORAGE TE VIBRATION SAFETY STAI WITHSTAND EMC EMISSIO	RANGE ME(Typ.) EMP. JMIDITY EMP., HUMIDITY NDARDS VOLTAGE	10ms inverter —— -25 ~ +70°C (Refer to 20% ~ 90% RH non30 ~ +70°C / -22 ~ 10 ~ 500Hz, 3G 10m CB IEC62368-1, De (Please refer to ne DC I/P - AC I/P:3.0k Parameter  Radiated  Conducted  Harmonic Current Voltage Flicker  BS EN/EN55024, B Parameter ESD  Radiated  EFT / Burst Surge Conducted  Magnetic Field	AC by pass o "Derating curve") condensing r158°F, 10 ~ 95% RF- nin./1cycle, 60min. o ekra Seal BS EN/EI ext page "AC output (VAC DC I/P - AC  Standard FCC for 112,124 BS EN/EN5503 FCC for 112,124 BS EN/EN55035 Standard BS EN/EN6100 BS EN/EN55035 Standard BS EN/EN6100	each along X, Y, Z axes N62368-1, UL458, E13 socket" table for more O/P:3.0KVAC AC O/I  ,148 only(expect for Typ 2(CISPR32) for 212,22 ,148 only(expect for Typ 2(CISPR32) for 212,22 0-3-2 0-3-3  0-4-2 0-4-3 0-4-4 0-4-5 0-4-6 0-4-8	B,EAC TP TC 004, A details) P - FG:1.5KVAC e-UN) 24,248 only(expect e-UN)	for Type-UN)  Test Level / Level 3, 8KV Level 2 Level 2, 1KV Level 2 Level 2 Level 1 >95% dip 0.5	Test Level / Note Class A  Class A  Class A  Class A
NVIRO	E	FREQUENCY TRASFER TIM WORKING TE WORKING HU STORAGE TE VIBRATION SAFETY STAI WITHSTAND EMC EMISSIO	RANGE ME(Typ.) EMP. JMIDITY EMP., HUMIDITY NDARDS VOLTAGE	10ms inverter —— -25 ~ +70°C (Refer to 20% ~ 90% RH non30 ~ +70°C / -22 ~ 4 10 ~ 500Hz, 3G 10n CB IEC62368-1, Do (Please refer to ne DC I/P - AC I/P:3.0h Parameter  Radiated  Conducted  Harmonic Current Voltage Flicker  BS EN/EN55024, B Parameter  ESD  Radiated  EFT / Burst  Surge  Conducted  Magnetic Field  Voltage Dips and Interruptions	AC by pass o "Derating curve") condensing r158°F, 10 ~ 95% RF- nin./1cycle, 60min. o ekra Seal BS EN/EI ext page "AC output (VAC DC I/P - AC  Standard FCC for 112,124 BS EN/EN5503 FCC for 112,124 BS EN/EN5503 SEN/EN55035 Standard BS EN/EN6100 BS EN/EN55035 Standard BS EN/EN6100	each along X, Y, Z axes N62368-1, UL458, E13 socket" table for more O/P:3.0KVAC AC O/I  ,148 only(expect for Typ 2(CISPR32) for 212,22 ,148 only(expect for Typ 2(CISPR32) for 212,22 0-3-2 0-3-3  0-4-2 0-4-3 0-4-4 0-4-5 0-4-6 0-4-8	B,EAC TP TC 004, Adetails) P - FG:1.5KVAC  e-UN) P4,248 only(expect e-UN) P4,248 only(expect e-UN)	for Type-UN)  Test Level / Level 3, 8KV Level 2 Level 2, 1KV Level 2 Level 2 Level 1 >95% dip 0.5	approved  Test Level / Note Class A Cl
NVIRO	TY  5)	FREQUENCY TRASFER TIM WORKING TE WORKING HU STORAGE TE VIBRATION SAFETY STAI WITHSTAND EMC EMISSIC	RANGE ME(Typ.) EMP. JMIDITY EMP., HUMIDITY NDARDS VOLTAGE	10ms inverter —— -25 ~ +70°C (Refer to 20% ~ 90% RH non30 ~ +70°C / -22 ~ 4 10 ~ 500Hz, 3G 10n CB IEC62368-1, Do (Please refer to ne DC I/P - AC I/P:3.0h Parameter  Radiated  Conducted  Harmonic Current Voltage Flicker  BS EN/EN55024, B Parameter  ESD  Radiated  EFT / Burst  Surge  Conducted  Magnetic Field  Voltage Dips and Interruptions	AC by pass o "Derating curve") condensing 1158°F, 10 ~ 95% RF- nin./1cycle, 60min. o ekra Seal BS EN/EI ext page "AC output (VAC DC I/P - AC  Standard FCC for 112,124 BS EN/EN5503 FCC for 112,124 BS EN/EN55035 Standard BS EN/EN6100	each along X, Y, Z axes N62368-1, UL458, E13 socket" table for more O/P:3.0KVAC AC O/I  148 only(expect for Typ 2(CISPR32) for 212,22 ,148 only(expect for Typ 2(CISPR32) for 212,22 0-3-2 0-3-3  0-4-2 0-4-3 0-4-5 0-4-6 0-4-8 0-4-11	B,EAC TP TC 004, Adetails) P - FG:1.5KVAC  e-UN) P4,248 only(expect e-UN) P4,248 only(expect e-UN)	for Type-UN)  Test Level / Level 3, 8KV Level 2 Level 3, 1KV Level 2 Level 1 >95% dip 0.5 >95% interru	approved  Test Level / Note Class A Cl
NVIRO	TY  5)	FREQUENCY TRASFER TIM WORKING TE WORKING HU STORAGE TE VIBRATION SAFETY STAM WITHSTAND EMC EMISSION EMC IMMUNIT	RANGE ME(Typ.) EMP. JMIDITY EMP., HUMIDITY NDARDS VOLTAGE	10ms inverter —— -25 ~ +70°C (Refer to 20% ~ 90% RH non30 ~ +70°C / -22 ~ 10 ~ 500Hz, 3G 10m CB IEC62368-1, De (Please refer to ne DC I/P - AC I/P:3.0k Parameter  Radiated  Conducted  Harmonic Current Voltage Flicker  BS EN/EN55024, B Parameter  ESD  Radiated  EFT / Burst Surge  Conducted  Magnetic Field  Voltage Dips and Interruptions 344.9K hrs min.	AC by pass o "Derating curve") condensing 158°F, 10 ~ 95% RF- nin./1cycle, 60min. o ekra Seal BS EN/E ext page "AC output (VAC DC I/P - AC  Standard FCC for 112,124 BS EN/EN5503 FCC for 112,124 BS EN/EN55035 Standard BS EN/EN6100	each along X, Y, Z axes N62368-1, UL458, E13 socket" table for more O/P:3.0KVAC AC O/I  148 only(expect for Typ 2(CISPR32) for 212,22 ,148 only(expect for Typ 2(CISPR32) for 212,22 0-3-2 0-3-3  0-4-2 0-4-3 0-4-5 0-4-6 0-4-8 0-4-11	B,EAC TP TC 004, Adetails) P - FG:1.5KVAC  e-UN) P4,248 only(expect e-UN) P4,248 only(expect e-UN)	for Type-UN)  Test Level / Level 3, 8KV Level 2 Level 3, 1KV Level 2 Level 1 >95% dip 0.5 >95% interru	approved  Test Level / Note Class A Cl
NVIRO	TY  TS	FREQUENCY TRASFER TIM WORKING TE WORKING HU STORAGE TE VIBRATION SAFETY STAI WITHSTAND  EMC EMISSIO  EMC IMMUNIT  MTBF DIMENSION PACKING 1.Efficiency, 2.No load di 3.All parame 4.Internal pr 5.The power	RANGE ME(Typ.) EMP. JMIDITY EMP., HUMIDITY NDARDS VOLTAGE  AC regulation a sspation at non-elers not specific e-start circuit, the r supply is consi	10ms inverter —— -25 ~ +70°C (Refer to 20% ~ 90% RH non30 ~ +70°C / -22 ~ 10 ~ 500Hz, 3G 10m CB IEC62368-1, De (Please refer to ne DC I/P - AC I/P:3.0k Parameter  Radiated  Conducted  Harmonic Current Voltage Flicker  BS EN/EN55024, B Parameter  ESD  Radiated  EFT / Burst Surge  Conducted  Magnetic Field  Voltage Dips and Interruptions 344.9K hrs min. 420*270*98mm (L*V 8.6Kg; 1pcs/ 10.4Kg and THD are tested to saving mode(Typ.): ed above are measure setup time is 8s. dered as an independer to the saving mode (Typ.): ed above are measure setup time is 8s. dered as an independer to the saving mode (Typ.): ed above are measure setup time is 8s. dered as an independer to the saving mode (Typ.): ed above are measure setup time is 8s. dered as an independer to the saving mode (Typ.): ed above are measure setup time is 8s. dered as an independer to the saving mode (Typ.): ed above are measure to the saving mode (Typ.): ed above are	AC by pass o "Derating curve") condensing 1158°F, 10 ~ 95% RF- nin./1cycle, 60min. o ekra Seal BS EN/E ext page"AC output (VAC DC I/P - AC  Standard  FCC for 112,124 BS EN/EN5503  FCC for 112,124 BS EN/EN55035  Standard  BS EN/EN6100	each along X, Y, Z axes N62368-1, UL458, E13 socket" table for more O/P:3.0KVAC AC O/I  ,148 only(expect for Typ 2(CISPR32) for 212,22 ,148 only(expect for Typ 2(CISPR32) for 212,22 0-3-2 0-3-2 0-4-2 0-4-3 0-4-4 0-4-5 0-4-6 0-4-8 0-4-11 2 (Bellcore); 34.8K I	B,EAC TP TC 004, Adetails) P - FG:1.5KVAC  e-UN) P4,248 only(expect e-U	for Type-UN)  Test Level / Level 3, 8KV Level 2 Level 3, 1KV Level 2 Level 1 >95% dip 0.5 >95% interru BK-217F (25°C)  roltage. actory setting. at the whole sys	Test Level / Note Class A Class A Class A Class A Class A  Class A  Class A   Note  //Line-Line 2KV/Line-Ear  // periods, 30% dip 25 periods  stem complies with the



# ■ AC Output Socket

MODEL NO.	NTU-2200-112 🗆	NTU-2200-124 🗌	NTU-2200-148 □
Socket type			
	TYPE-US	TYPE-UN	TYPE-TB
	In Stock	In Stock	In Stock
Country	USA	UNIVERSAL	UNIVERSAL
Certificate	CB DEKRA FC	None	CB ( DEKRA FC

MODEL NO.	NTU-2200	-212 🗌	NTU-2200-	224 🗌	NTU-2200	-248 🗌
Socket type						
	TYPE-EU	TYPE-CN	TYPE-UK	TYPE-TB	TYPE-AU	TYPE-UN
	In Stock	In Stock	By request	In Stock	By request	In Stock
Country	EUROPE	CHINA	U.K	UNIVERSAL	AUSTRALIA	UNIVERSAL
Certificate	CB €13 PDEKRA [H[ C€ UK				CB E13 PDEKRA & EIII C E UK	E13 [A[

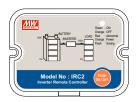




# ■ IRC1/2/3 Remote Controller (Accessory sold seperately)

- 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.



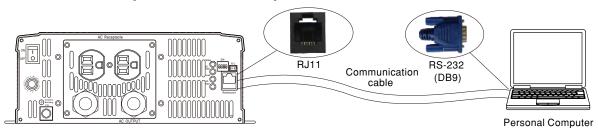




% Please refer to for more detail: <a href="https://www.meanwell.com/webapp/product/search.aspx?prod=IRC1">https://www.meanwell.com/webapp/product/search.aspx?prod=IRC1</a>

#### ■ Support RS-232 Communication

• The internal data of single NTU-2200 can read through RS-232.



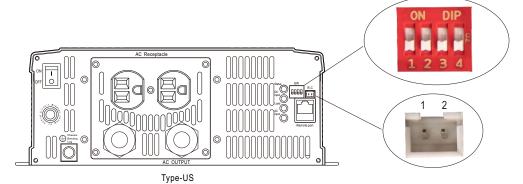
- X Please refer to for more detail: http://www.meanwell.com/manual.html
- 🔆 RJ11-RS232 Communication cable should be ordered seperately, Order No.: DS-RJ11-RS232

#### ■ 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.



AC Outp	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	Of 1. Non-Saving mode		



#### **■ LED STATUS**

#### Normal work:

	Green	Orange	Red
Status	<ul><li>Inverter OK</li></ul>	Remote off Saving mode	Abnormal Status     (See below table)

	Green	Orange	Red
DOI: 1	● 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

Flash



# ■ MECHANICAL SPECIFICATION Unit:mm 420 286 266 266 246 20 20 Air flow direction 00 (DC input side) 259 270 0 0 $\odot \odot$ Air flow direction 0 Type-US Type-EU ] ... T Type-UN Type-CN Type-TB

(AC output side)

#### 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

#### Directions for use TB socket

Socket type	Withstand Current	Note
US	15A	When the load current is over withstand current, must use output terminal
EU	16A	connection which can be found inside the AC output panel of the inverter.
CN	10A	
UN	16A	
UK	13A	ACQUIPUT IF 6
AU	10A	L N ±



# ■ Accessory List

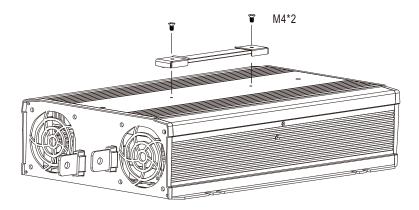
 $\divideontimes$  Communication cable (Optional accessory, Power inverter and Communication cable should ordered separately)

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

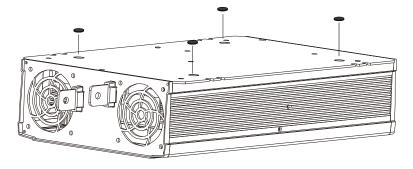
X Carry handle (Optional accessory, Power inverter and Pull handle should ordered seperately)

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





2 Foot pad



# 2200W High Reliable True Sine Wave with UPS DC-AC Power Inverter NTU-2200 series

# ■ TYPICAL APPLICATION

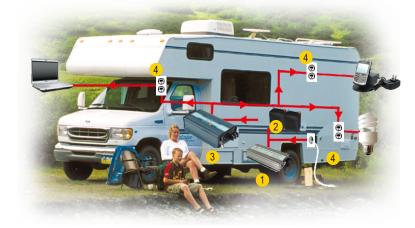


- 1 Battery Bank
- 2 Off-Grid DC/AC Solar Inverter (NTS series)
- 3 AC Outlet



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

2 Battery Bank



#### ■ INSTALLATION MANUAL

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