



Наличие и актуальные цены на

NTS-2200-224EU

<https://www.mean-well.ru/store/NTS-2200-224EU/>



DC input side



AC output side



User's Manual



Video



IEC62368-1 EN62368-1 (for 112/124/148 TB type only) (248 TB only)
Please refer to page3 for more details.

TPTC004 AS/NZS 62368.1

Features

- True sine wave output (THD<3%)
- High surge power up to 4400W
- Temperature controlled cooling fan
- AC output voltage and frequency selectable by DIP S.W
- No load dissipation <1.7W 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.: RJ11-RS232, sold sperately)
- Carry handle accessory available(Order NO.: Carry handle, sold separately)
- Conformal coating
- 3 years warranty

Description

NTS-2200 is a 2200W 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, 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 NTS-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

NTS - 2200 - 1 12 US

- 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

Applications

- Home and office appliance
- Power tools
- Portable equipment
- Vehicle
- Yacht
- Off-grid solar power system

GTIN CODE

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

SPECIFICATION

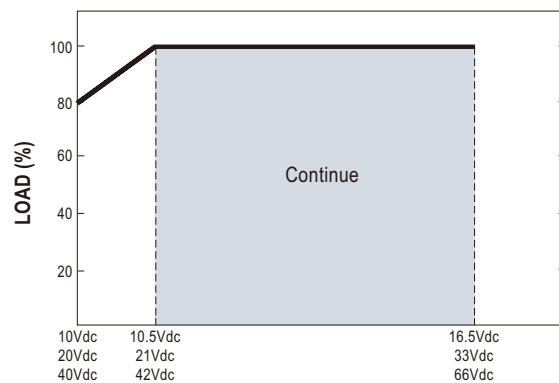
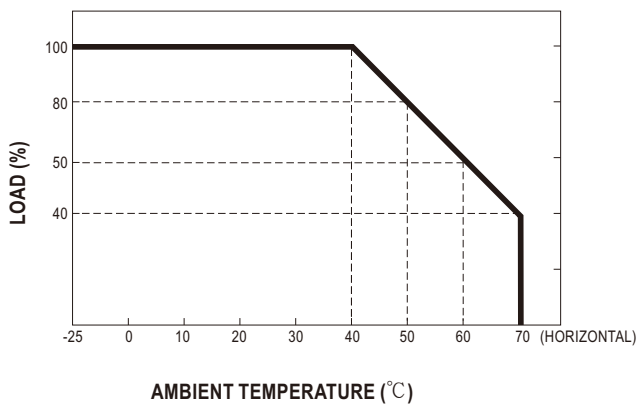
MODEL NO.			NTS-2200-112		NTS-2200-124		NTS-2200-148		NTS-2200-212		NTS-2200-224		NTS-2200-248		
			= US, UN, TB						= EU, CN, AU, UK, UN, TB						
AC OUTPUT	RATED POWER(Continuous)		2200W						2200W						
	OVER RATED POWER(3 Min.)		2530W						2530W						
	PEAK POWER(10 Sec.)		3300W						3300W						
	SURGE POWER(30 Cycles)		4400W						4400W						
	AC VOLTAGE		Factory setting set at 110VAC						Factory setting set at 230VAC						
			100 / 110 / 115 / 120Vac selectable by DIP S.W						200 / 220 / 230 / 240Vac selectable by DIP S.W						
	FREQUENCY		Factory setting set at 60±0.1Hz						Factory setting set at 50±0.1Hz						
			50/60Hz selectable by DIP S.W						50/60Hz selectable by DIP S.W						
	WAVEFORM		Note.1 True sine wave (THD<3%)												
AC REGULATION		±3.0% at rated output voltage													
FRONT PANEL LED		Please see page 5													
DC INPUT	DC VOLTAGE		12Vdc		24Vdc		48Vdc		12Vdc		24Vdc		48Vdc		
	VOLTAGE RANGE (Typ.)		10 ~ 16.5Vdc		20 ~ 33Vdc		40 ~ 66Vdc		10 ~ 16.5Vdc		20 ~ 33Vdc		40 ~ 66Vdc		
	DC CURRENT (Typ.)		250A		120A		60A		250A		120A		60A		
	NO LOAD DISSIPATION (SAVING MODE)(Typ.)		Default disable, auto detect AC output load≤10W will be changed to saving mode												
			Note.2 1.7W												
	OFF MODE CURRENT DRAW		≤2mA												
	EFFICIENCY (Typ.)		Note.1 89%		90%		91%		90%		92%		93%		
BATTERY TYPES		Lead Acid or li-ion													
PROTECTION	DC INPUT	FUSE (INTERNAL)		40A*8		40A*4		25A*4		40A*8		40A*4		25A*4	
		LOW	ALARM	11±0.3Vdc		22±0.5Vdc		44±1Vdc		11±0.3Vdc		22±0.5Vdc		44±1Vdc	
			SHUTDOWN	10±0.3Vdc		20±0.5Vdc		40±1Vdc		10±0.3Vdc		20±0.5Vdc		40±1Vdc	
			RESTART	12.5±0.3Vdc		25±0.5Vdc		50±1Vdc		12.5±0.3Vdc		25±0.5Vdc		50±1Vdc	
		HIGH	ALARM	15.5±0.3Vdc		31±0.5Vdc		62±1Vdc		15.5±0.3Vdc		31±0.5Vdc		62±1Vdc	
			SHUTDOWN	16.5±0.3Vdc		33±0.5Vdc		66±1Vdc		16.5±0.3Vdc		33±0.5Vdc		66±1Vdc	
			RESTART	15±0.3Vdc		30±0.5Vdc		60±1Vdc		15±0.3Vdc		30±0.5Vdc		60±1Vdc	
		BAT. POLARITY		By internal fuse open											
		AC OUTPUT	OVER TEMPERATURE		Protection type : Shut down o/p voltage, re-power on to recover										
	OUTPUT SHORT		Protection type : Shut down o/p voltage, re-power on to recover												
	OVER LOAD (Typ.)		105 ~ 115% load for 180 sec., 115% ~ 150% load for 10 sec.												
			Protection type : Shut down o/p voltage, re-power on to recover												
	CIRCUIT BREAKER		25A (Only for "TB" type)						None						
TB TYPE		UL458 (Only for "TB" type AC socket)						None							
FUNCTION	REMOTE CONTROL	CONNECTOR	Power ON-OFF remote control by front panel dry contact connector(by RELAY), Open : Normal work ; Short : Remote off												
		ACCESSORY	Remote controller sold separately, Order No.: IRC1,IRC2,IRC3												
RS-232 COMMUNICATION			RS-232 ~ RJ11 Type connector (Please refer to page 4 for more details)												
ENVIRONMENT	WORKING TEMP.		-25 ~ +70℃ (Refer to "Derating curve")												
	WORKING HUMIDITY		20% ~ 90% RH non-condensing												
	STORAGE TEMP., HUMIDITY		-30 ~ +70℃ / -22 ~ +158°F, 10 ~ 95% RH non-condensing												
	VIBRATION		10 ~ 500Hz, 3G 10min./1cycle, 60min. each along X, Y, Z axes												
SAFETY & EMC (Note.5)	SAFETY STANDARDS		CB IEC62368-1,Dekra Seal BS EN/EN62368-1,UL458, UL62368-1, E13,EAC TP TC 004,AS/NZS 62368.1 approved (Please refer to next page"AC output socket" table for more details)												
	WITHSTAND VOLTAGE		DC I/P - AC O/P:3.0KVAC AC O/P - FG:1.5KVAC												
	EMC EMISSION	Parameter	Standard									Test Level / Note			
		Radiated	FCC for 112,124,148 only(expect for Type-UN)									Class A			
			BS EN/EN55032(CISPR32) for 212,224,248 only(expect for Type-UN)									Class A			
		Harmonic Current	BS EN/EN61000-3-2									-----			
	Voltage Flicker	BS EN/EN61000-3-3									-----				
	EMC IMMUNITY	BS EN/EN55024, BS EN/EN55035													
		Parameter	Standard									Test Level / Note			
		ESD	BS EN/EN61000-4-2									Level 3, 8KV air ; Level 2, 4KV contact			
Radiated		BS EN/EN61000-4-3									Level 2, 3V/m				
Magnetic Field		BS EN/EN61000-4-8									Level 1, 1A/m				
OTHERS	MTBF		364.7K hrs min. Telcordia TR/SR-332 (Bellcore) ; 34.9K hrs min. MIL-HDBK-217F (25℃)												
	DIMENSION		420*270*98mm (L*W*H)												
	PACKING		8.6Kg; 1pcs/ 10.4Kg/ 1.39CUFT												
NOTE			1.Efficiency, AC regulation and THD are tested by 1650W load, linear load at 12.5Vdc/25Vdc/50Vdc input voltage. 2.No load dissipation at non-saving mode(Typ.): 112/124/148 for 25W, 212/224/248 for 55W. 3.All parameters not specified above are measured at rated load, 25℃ of ambient temperature and set to factory setting. 4.Internal pre-start circuit, the setup time is 8s. 5.The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf) ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx												

AC Output Socket

MODEL NO.	NTS-2200-112 ☐	NTS-2200-124 ☐	NTS-2200-148 ☐
Socket type			
	TYPE-US	TYPE-UN	TYPE-TB
	In Stock	In Stock	In Stock
Country	USA	UNIVERSAL	UNIVERSAL
Certificate	CB FC	None	CB FC

MODEL NO.	NTS-2200-212 ☐		NTS-2200-224 ☐		NTS-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 EAC CE UK			CB EAC CE UK	CB EAC CE UK	EAC

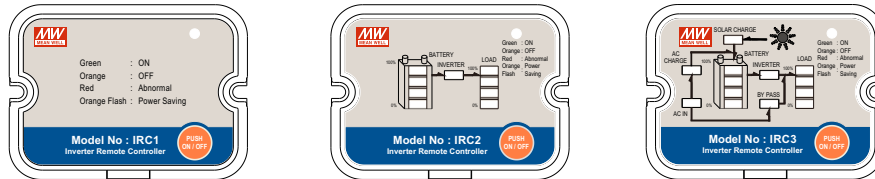
DERATING CURVE



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

- 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.

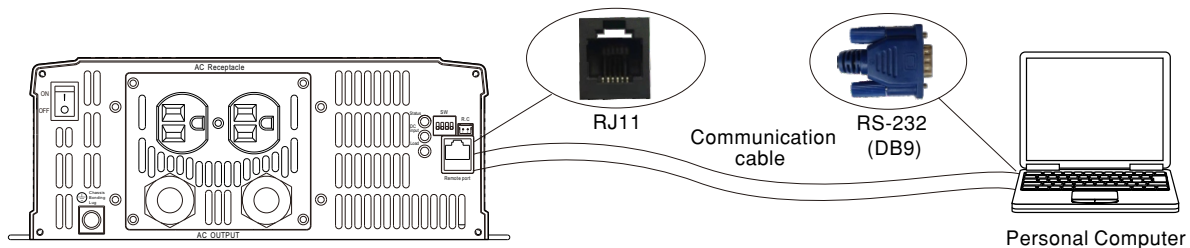
Note: Part of the control signals will not function properly due to different compliance of each model.



※ 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 NTS-2200 can read through RS-232.



※ Please refer to for more detail: <http://www.meanwell.com/manual.html>

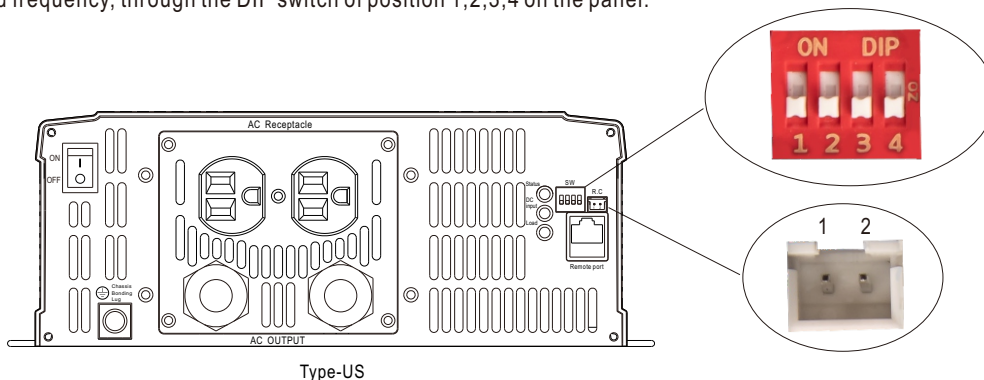
※ RJ11-RS232 Communication cable should be ordered separately, Order No.: RJ11-RS232

■ 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 : 50Hz	ON : Saving mode
OFF	ON : 110Vac or 220Vac		
ON	OFF : 115Vac or 230Vac	OFF: 60Hz	OFF: Non-Saving mode
ON	ON : 120Vac or 240Vac		

■ LED STATUS

Normal work:

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

	Green	Orange	Red
DC Input	 12.5~15.5Vdc  25~31Vdc  50~62Vdc	 11~12.5Vdc  22~25Vdc  44~50Vdc	 <11Vdc or >15.5Vdc  <22Vdc or >31Vdc  <44Vdc or >62Vdc

	Green	Orange	Red
Load	 <40% load	 40~80% load	 >80% load

Abnormal status :

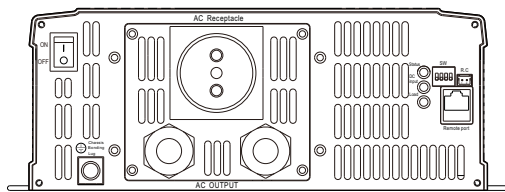
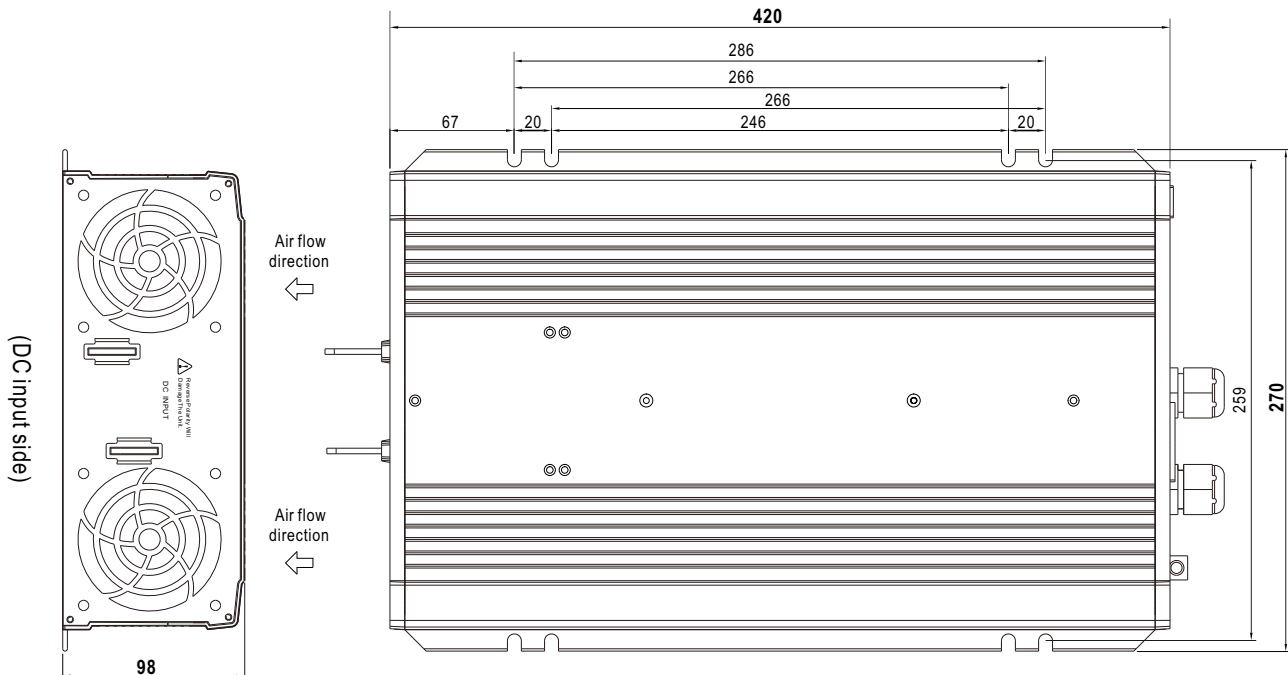
LED Indicator	Abnormal Indication
Status  DC Input  Load 	Output overload or AC output short circuit
Status  DC Input  Load 	Abnormal DC voltage
Status  DC Input  Load 	Over temperature or Fan lock
Status  DC Input  Load 	Inverter fail

-  Light
-  Light off
-  Flash

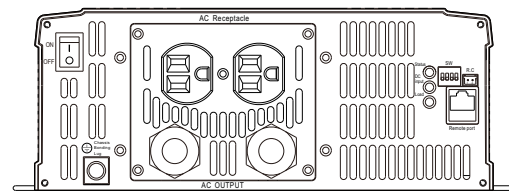
MECHANICAL SPECIFICATION

(Unit: mm , tolerance ± 1 mm)

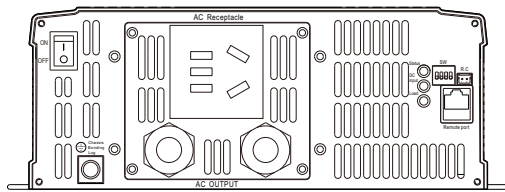
Case No. 289A



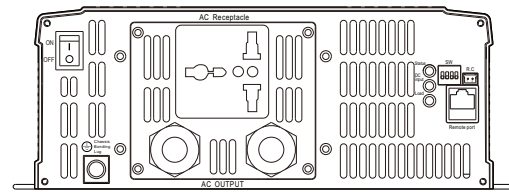
Type-EU



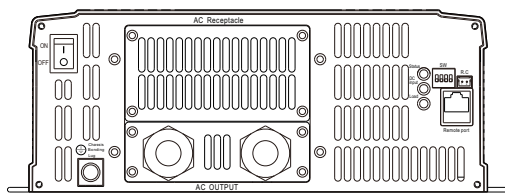
Type-US



Type-CN



Type-UN



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 or equivalent	JST SXH-001T or equivalent
Pin 1,2 Short: Remote off		

Remote port connector (RJ11)

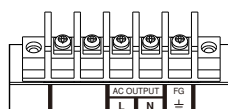


Remote port

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 connection which can be found inside the AC output panel of the inverter.
EU	16A	
CN	10A	
UN	16A	
UK	13A	
AU	10A	

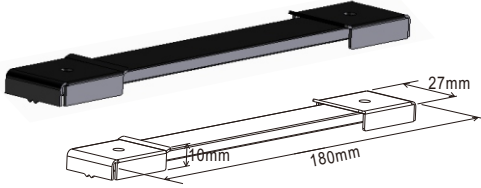


■ Accessory List

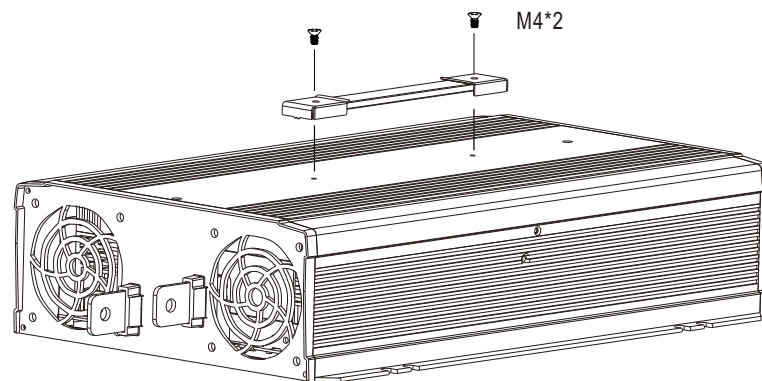
※ Communication cable (Optional accessory, Power inverter and Communication cable should ordered separately)

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

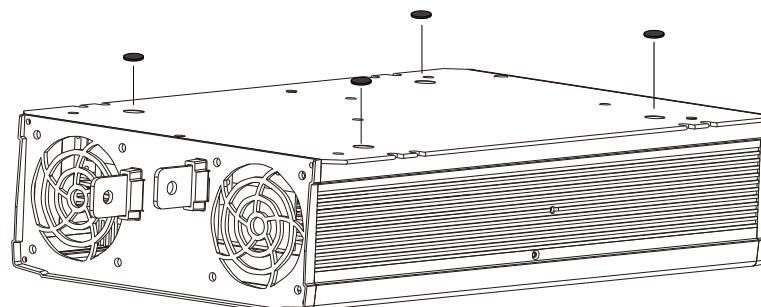
※ Carryl handle (Optional accessory, Power inverter and Pull handle should ordered separately)

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

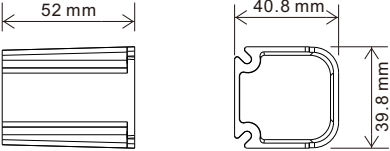
① Handle

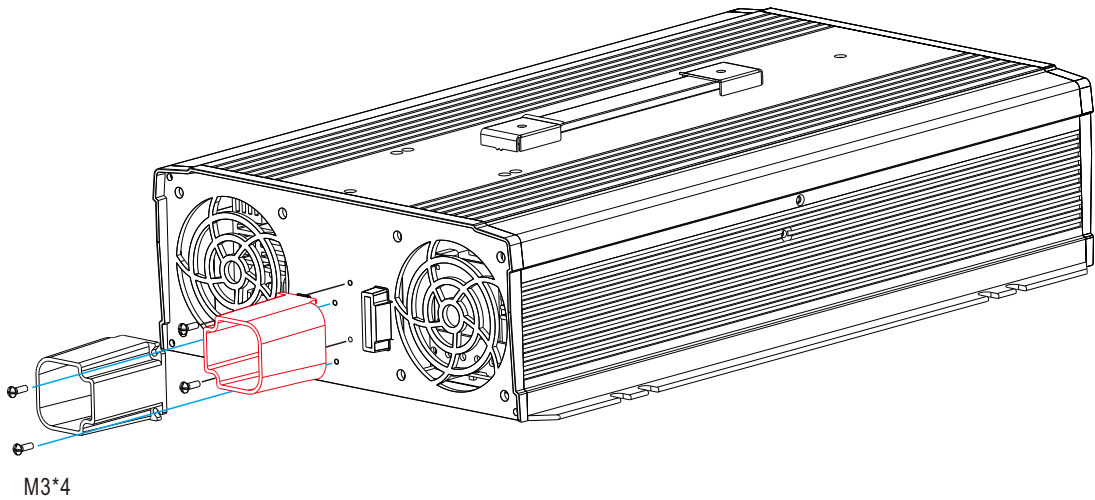


② Foot pad



※ Terminal protector mating along with NTS-2200 (Standard accessory)

Item			Quantity
①			1
②			1
③			4



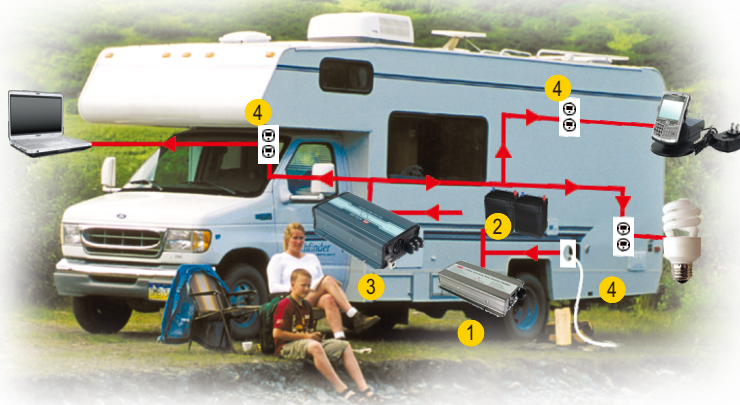
TYPICAL APPLICATION



- 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>