



Наличие и актуальные цены на

NTS-1700-212EU

<https://www.mean-well.ru/store/NTS-1700-212EU/>



DC input side



User's Manual



Video



AC output side



IEC62368-1 BS EN/EN62368-1 (for 112/124 type GFCI 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 3400W
- Temperature controlled cooling fan
- AC output voltage and frequency selectable by DIP S.W
- No load dissipation <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.: RJ11-RS232, sold separately)
- Carry handle accessory available(Order NO.: Carry handle, sold separately)
- Conformal coating
- 3 years warranty

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>

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

NTS - 1700 - 1 12 US

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)

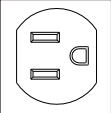
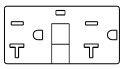
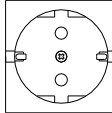
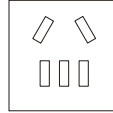
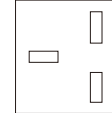
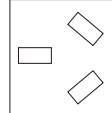
Rated wattage

Series name

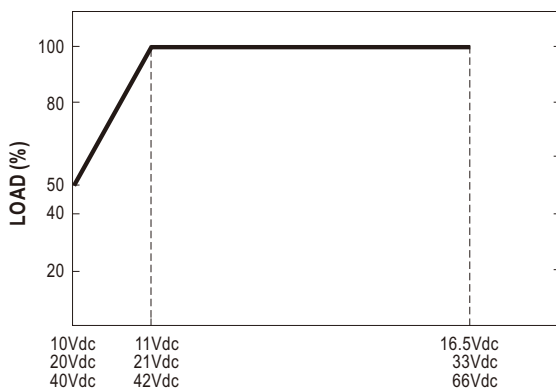
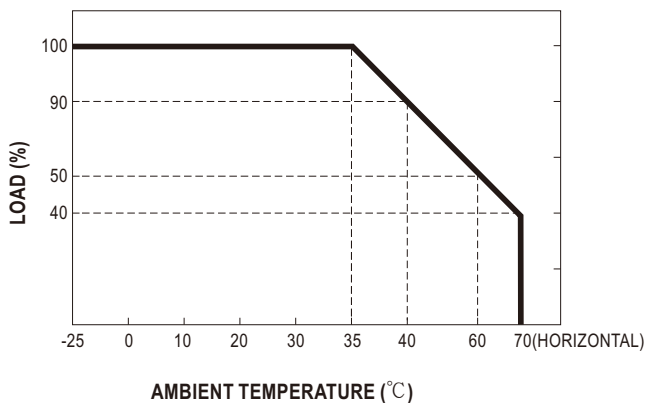
SPECIFICATION

MODEL NO.			NTS-1700-112□	NTS-1700-124□	NTS-1700-148□	NTS-1700-212□	NTS-1700-224□	NTS-1700-248□	
			□ = US, GFCI, UN			□ = EU, CN, AU, UK, UN			
AC OUTPUT	RATED POWER(Continuous)		1500W			1700W			
	OVER RATED POWER(3 Min.)		1750W			2000W			
	PEAK POWER(10 Sec.)		2200W			2550W			
	SURGE POWER(30 Cycles)		3000W			3400W			
	AC VOLTAGE		Default setting set at 110VAC 100 / 110 / 115 / 120Vac selectable by DIP S.W			Default setting set at 230VAC 200 / 220 / 230 / 240Vac selectable by DIP S.W			
	FREQUENCY		Default setting set at 60±0.1Hz 50/60Hz selectable by DIP S.W			Default setting set at 50±0.1Hz 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.)		150A	75A	37.5A	170A	85A	42.5A	
	NO LOAD DISSIPATION (SAVING MODE)(Typ.) Note.2		Default disable, ≤1.2W ~1.5W by models @ auto detect AC output load≤10W will be changed to saving mode						
			1.2W	1.4W	1.5W	1.2W	1.4W	1.5W	
	OFF MODE CURRENT DRAW		≤1mA						
	EFFICIENCY (Typ.) Note.1		89%	90%	91%	89%	92%	93%	
BATTERY TYPES		Lead Acid or li-ion							
PROTECTION	DC INPUT	FUSE (INTERNAL)		40A*6	40A*3	25A*3	40A*6	40A*3	25A*3
		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 (ONLY FOR "GFCI" AC SOCKET)		15A			10A		
		GFCI PROTECTION		UL458 (Only for "GFCI" AC socket, by request) 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						
ENVIRONMENT	RS-232 COMMUNICATION		RS-232 ~ RJ11 Type connector (Please refer to page 4 for more details)						
	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						
SAFETY & EMC (Note.5)	VIBRATION		10 ~ 500Hz, 3G 10min./1cycle, 60min. each along X, Y, Z axes						
	SAFETY STANDARDS		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		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		475.5K hrs min. Telcordia TR/SR-332 (Bellcore) ; 46.2K hrs min. MIL-HDBK-217F (25℃)						
	DIMENSION		400*184*70mm (L*W*H)						
	PACKING		4.63Kg; 2pcs/ 12Kg/ 1.76CUFT						
NOTE	1.Efficiency, AC regulation and THD are tested by 1350W load, linear load at 12.5Vdc/25Vdc/50Vdc input voltage. 2.No load dissipation at non-saving mode(Typ.): 112/124/148 for 16W, 212/224/248 for 29W. 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-1700-112 ☐	NTS-1700-124 ☐	NTS-1700-148 ☐	NTS-1700-212 ☐	NTS-1700-224 ☐	NTS-1700-248 ☐
Socket type						
						
	TYPE-US	TYPE-GFCI	TYPE-UN	TYPE-EU	TYPE-CN	TYPE-UK
	In Stock	By request	In Stock	In Stock	In Stock	By request
Country	USA	USA	UNIVERSAL	EUROPE	CHINA	U.K
Certificate	CB FC DEKRA	CB FC UL US (Except for 48V input)	None	CB E13 DEKRA EAC CE UK	CB E13 DEKRA EAC CE UK	CB E13 DEKRA EAC CE UK

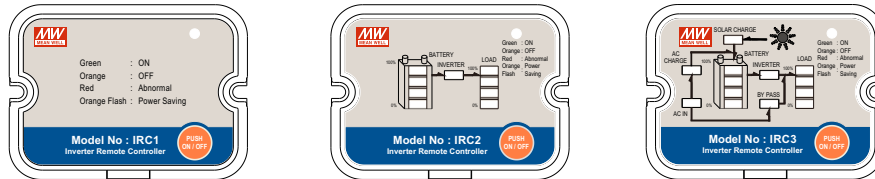
■ DERATING CURVE



■ 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.

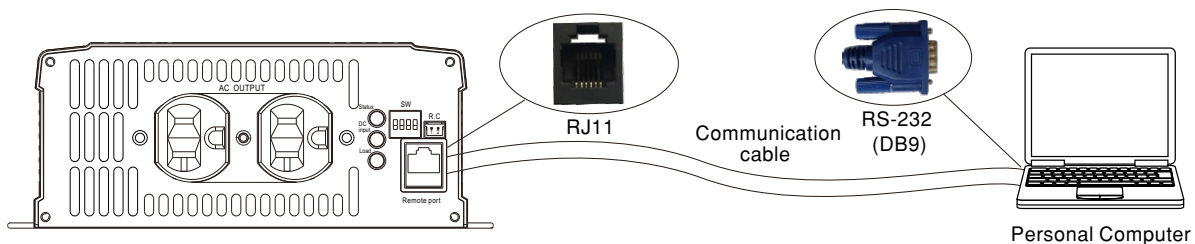
Note: Part of the control signals will not function properly due to different compliance of each model.



※ 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-1700 can read through RS-232.



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

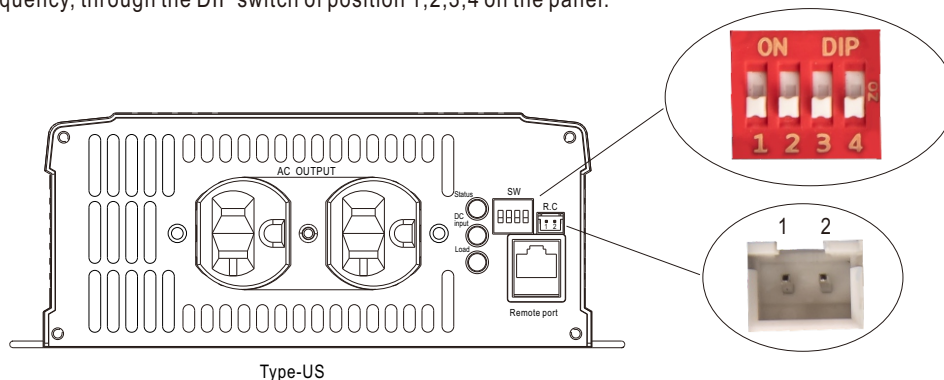
※ RJ11-RS232 Communication cable should be ordered separately, Order No.: RJ11-RS232

■ 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 :

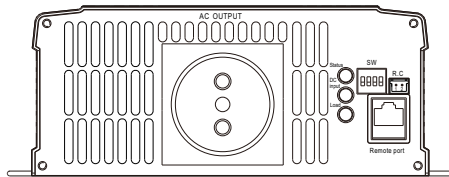
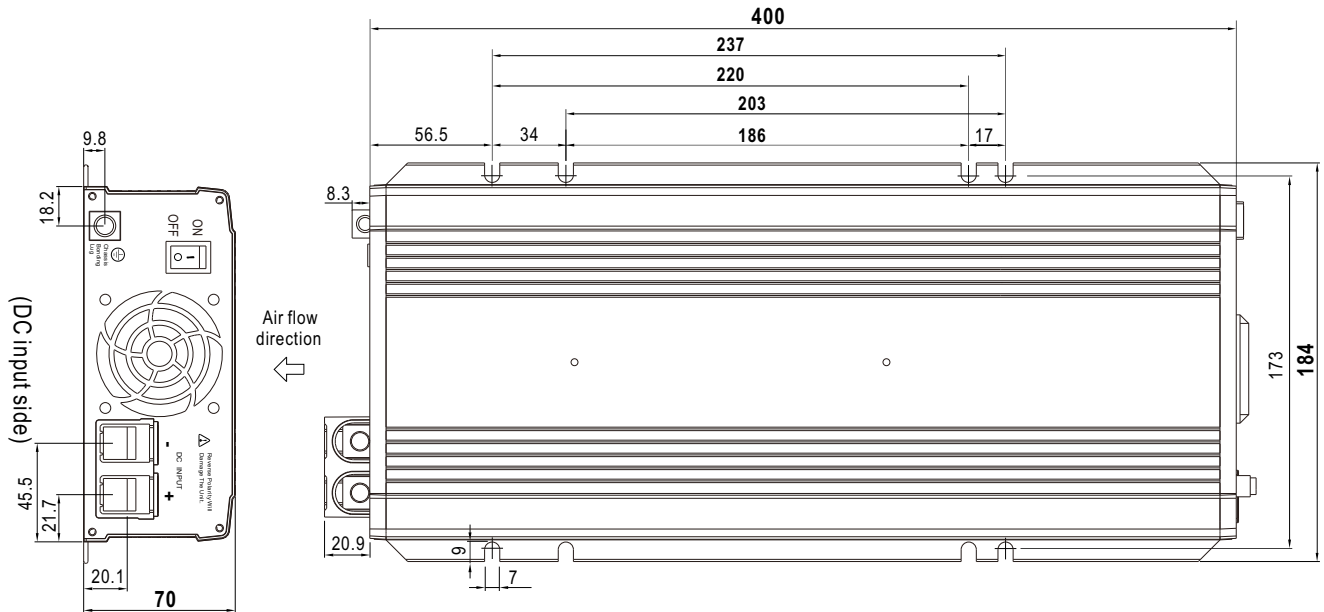
LED Indicator	Abnormal Indication
Status  DC Input  Load 	Output overload or AC output short circuit
Status  DC Input  Load 	Abnormal DC voltage
Status  DC Input  Load 	Over temperature or Fan lock
Status  DC Input  Load 	Inverter fail

-  Light
-  Light off
-  Flash

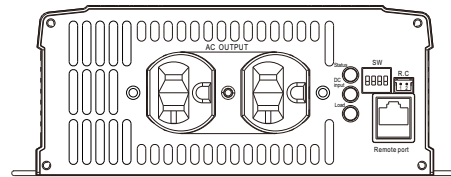
MECHANICAL SPECIFICATION

(Unit: mm , tolerance ± 1 mm)

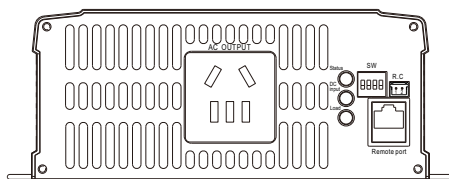
Case No. 286B



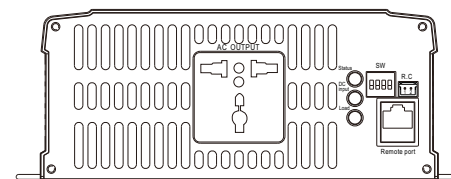
Type-EU



Type-US



Type-CN



Type-UN

(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

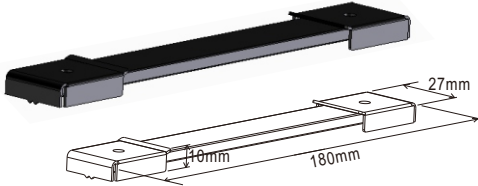
Assignment	Rx	GND	Tx
Remote port	2	3	4
DB9	3	5	2

■ Accessory List

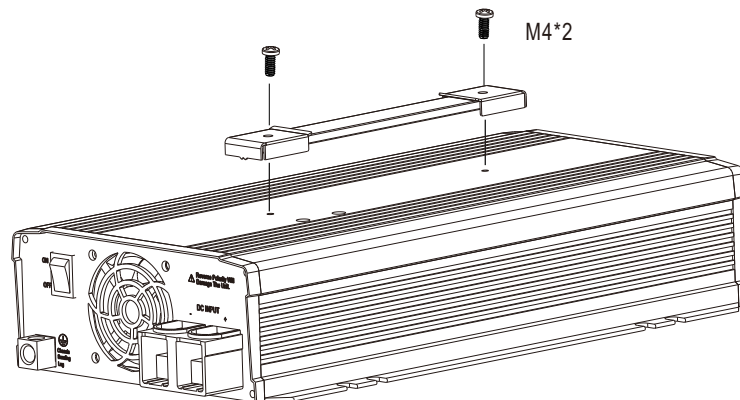
※ Communication cable (Optional accessory, Power inverter and Communication cable should ordered separately)

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

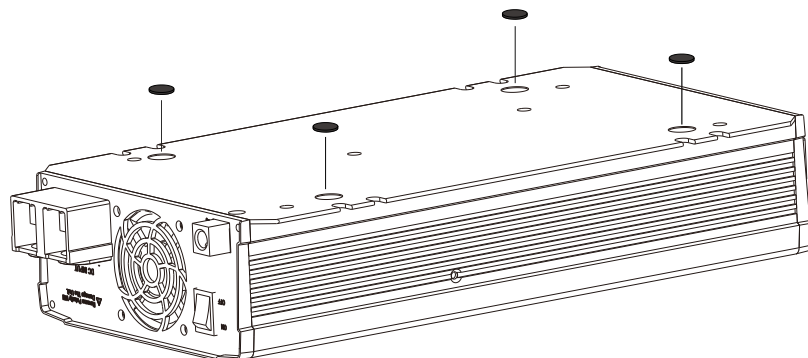
※ Carry handle (Optional accessory, Power inverter and Pull handle should ordered separately)

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

① Handle



② Foot pad



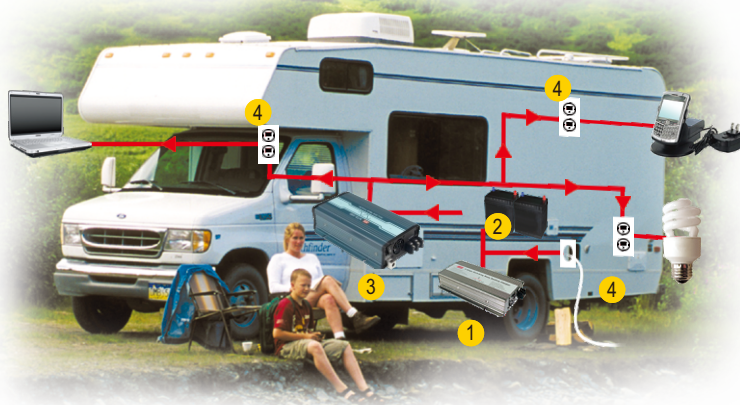
TYPICAL APPLICATION



- 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>