

SPECIFICATION

MODEL NO.		NTS-300-112□	NTS-300-124□	NTS-300-148□	NTS-300-212□	NTS-300-224□	NTS-300-248□					
		□ = US, GFCI, UN		□ = EU, CN, AU, UK, UN								
AC OUTPUT	RATED POWER(Continuous)	300W										
	OVER RATED POWER(3 Min.)	345W										
	PEAK POWER(10 Sec.)	450W										
	SURGE POWER(30 Cycles)	600W										
	AC VOLTAGE	Default setting set at 110VAC		Default setting set at 230VAC								
		100 / 110 / 115 / 120Vac selectable by DIP S.W		200 / 220 / 230 / 240Vac selectable by DIP S.W								
	FREQUENCY	Default setting set at 60Hz ± 0.1Hz		Default setting set at 50Hz ± 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 input voltage										
DC INPUT	FRONT PANEL LED	Please refer to page5										
	DC VOLTAGE	12V	24V	48V	12V	24V	48V					
	VOLTAGE RANGE (Typ.)	10 ~ 16.5Vdc	20 ~ 33Vdc	40 ~ 66Vdc	10 ~ 16.5Vdc	20 ~ 33Vdc	40 ~ 66Vdc					
	DC CURRENT (Typ.)	30A	15A	8A	30A	15A	8A					
	NO LOAD DISSIPATION (Typ.)	10W	10W	12W	10W	10W	12W					
	SAVING MODE	Default disable, ≤ 1.2W ~ 1.5W by models @ auto detect AC output load ≤ 10W will be changed to saving mode										
	1.2W	1.3W	1.5W	1.2W	1.3W	1.5W						
	OFF MODE CURRENT DRAW	≤ 1mA										
	EFFICIENCY (Typ.)	Note.1 90%		92%	92%	92%	93%					
	BATTERY TYPES	Lead Acid or li-ion										
PROTECTION	DC INPUT	30A*2	30A*1	10A*2	30A*2	30A*1	10A*2					
	LOW	ALARM	11 ± 0.3Vdc	22 ± 0.5Vdc	44 ± 1Vdc	11 ± 0.3Vdc	22 ± 0.5Vdc					
		SHUTDOWN	10 ± 0.3Vdc	20 ± 0.5Vdc	40 ± 1Vdc	10 ± 0.3Vdc	20 ± 0.5Vdc					
		RESTART	12.5 ± 0.3Vdc	25 ± 0.5Vdc	50 ± 1Vdc	12.5 ± 0.3Vdc	25 ± 0.5Vdc					
	HIGH	ALARM	15.5 ± 0.3Vdc	31 ± 0.5Vdc	62 ± 1Vdc	15.5 ± 0.3Vdc	31 ± 0.5Vdc					
		SHUTDOWN	16.5 ± 0.3Vdc	33 ± 0.5Vdc	66 ± 1Vdc	16.5 ± 0.3Vdc	33 ± 0.5Vdc					
		RESTART	15 ± 0.3Vdc	30 ± 0.5Vdc	60 ± 1Vdc	15 ± 0.3Vdc	30 ± 0.5Vdc					
		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									
FUNCTION	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										
	GFCI PROTECTION	Design refer to UL458 (Only for "GFCI" AC socket, by request)		None								
	REMOTE CONTROL	Power ON-OFF remote control by front panel dry contact connector (by RELAY); Open : Normal work ; Short ,Remote off										
	WORKING TEMP.	-25 ~ +65°C (Refer to "Derating curve")										
	WORKING HUMIDITY	20% ~ 90% RH non-condensing										
	STORAGE TEMP., HUMIDITY	-30 ~ +70°C / -22 ~ +158°F, 10 ~ 95% RH non-condensing										
	VIBRATION	10 ~ 500Hz, 3G 10min./1cycle, 60min. each along X, Y, Z axes										
	SAFETY STANDARDS	CB IEC62368-1, Dekra BS EN/EN62368-1, E13, EAC TP TC 004 approved; Design refer to AS/NZS 62368.1 (Please refer to next page "AC output socket" table for more details) ; Design refer to UL458 (By request)										
	WITHSTAND VOLTAGE	DC I/P - AC O/P: 3.0KVac AC O/P - FG: 1.5KVac										
SAFETY & EMC (Note.4)	EMC EMISSION	Parameter	Standard				Test Level / Note					
		Radiated	FCC for 112,124,148 only(except for Type-UN)				Class A					
			BS EN/EN55032(CISPR32) for 212,224,248 only(except for Type-UN)				Class A					
		Harmonic Current	BS EN/EN61000-3-2				-----					
	EMC IMMUNITY	Voltage Flicker	BS EN/EN61000-3-3				-----					
		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					
OTHERS	DIMENSION	Radiated	BS EN/EN61000-4-3				Level 2, 3V/m					
		Magnetic Field	BS EN/EN61000-4-8				Level 1, 1A/m					
		MTBF	281.9K hrs min. Telcordia TR/SR-332 (Bellcore) ; 85.3K hrs min. MIL-HDBK-217F (25°C)									
NOTE	PACKING	210*130*55mm (L*W*H)										
		1.3Kg; 8pcs/ 11.4Kg/ 1.74CUFT										
		1.Efficiency, AC regulation and THD are tested by 300W, linear load at 12.5Vdc/25Vdc/50Vdc input voltage. 2.All parameters not specified above are measured at rated load, 25°C of ambient temperature and set to factory setting. 3.Internal pre-start circuit, the setup time is 8s. 4.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 http://www.meanwell.com)										
※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx												



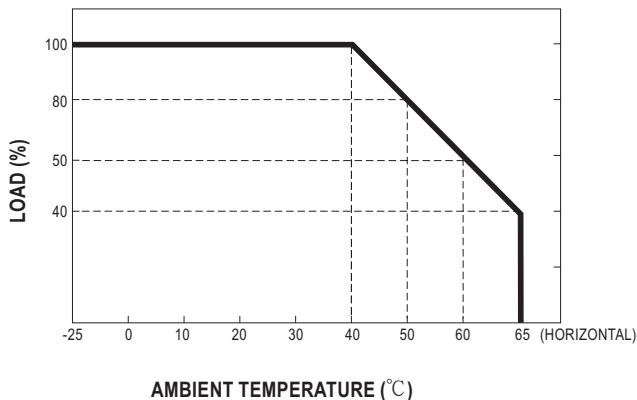
300W High Reliable True Sine Wave DC-AC Power Inverter

NTS-300 series

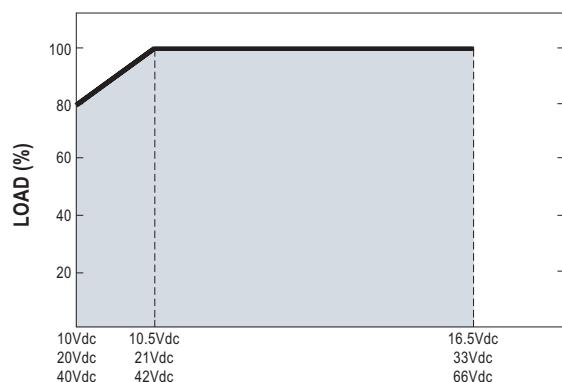
■ AC Output Socket

MODEL NO.	NTS-300-112	NTS-300-124	NTS-300-148	NTS-300-212	NTS-300-224	NTS-300-248
Socket type						
	TYPE-US	TYPE-GFCI	TYPE-UN	TYPE-EU	TYPE-CN	TYPE-UK
	Standard	Optional	Standard	Standard	Standard	Optional
Country	USA	USA	UNIVERSAL	EUROPE	CHINA	U.K
Certificate	CB FC DEKRA	CB FC	None	CB E13 DEKRA CE UK CA	CB E13 DEKRA CE UK CA	E13 CE UK CA

■ DERATING CURVE



AMBIENT TEMPERATURE (°C)



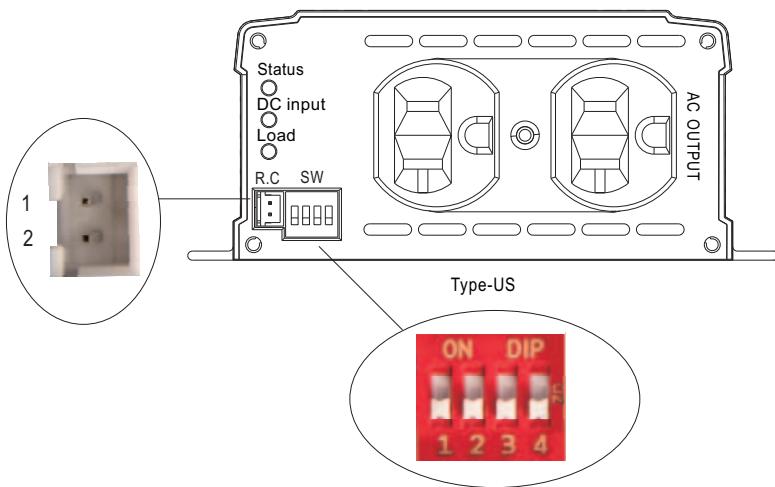
10Vdc 10.5Vdc 16.5Vdc
20Vdc 21Vdc 33Vdc
40Vdc 42Vdc 66Vdc

■ Remote ON-OFF Control

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 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		



300W High Reliable True Sine Wave DC-AC Power Inverter

NTS-300 series

■ LED STATUS

Normal work:

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

DC Input	Green	Orange	Red
	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

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

Abnormal status :

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

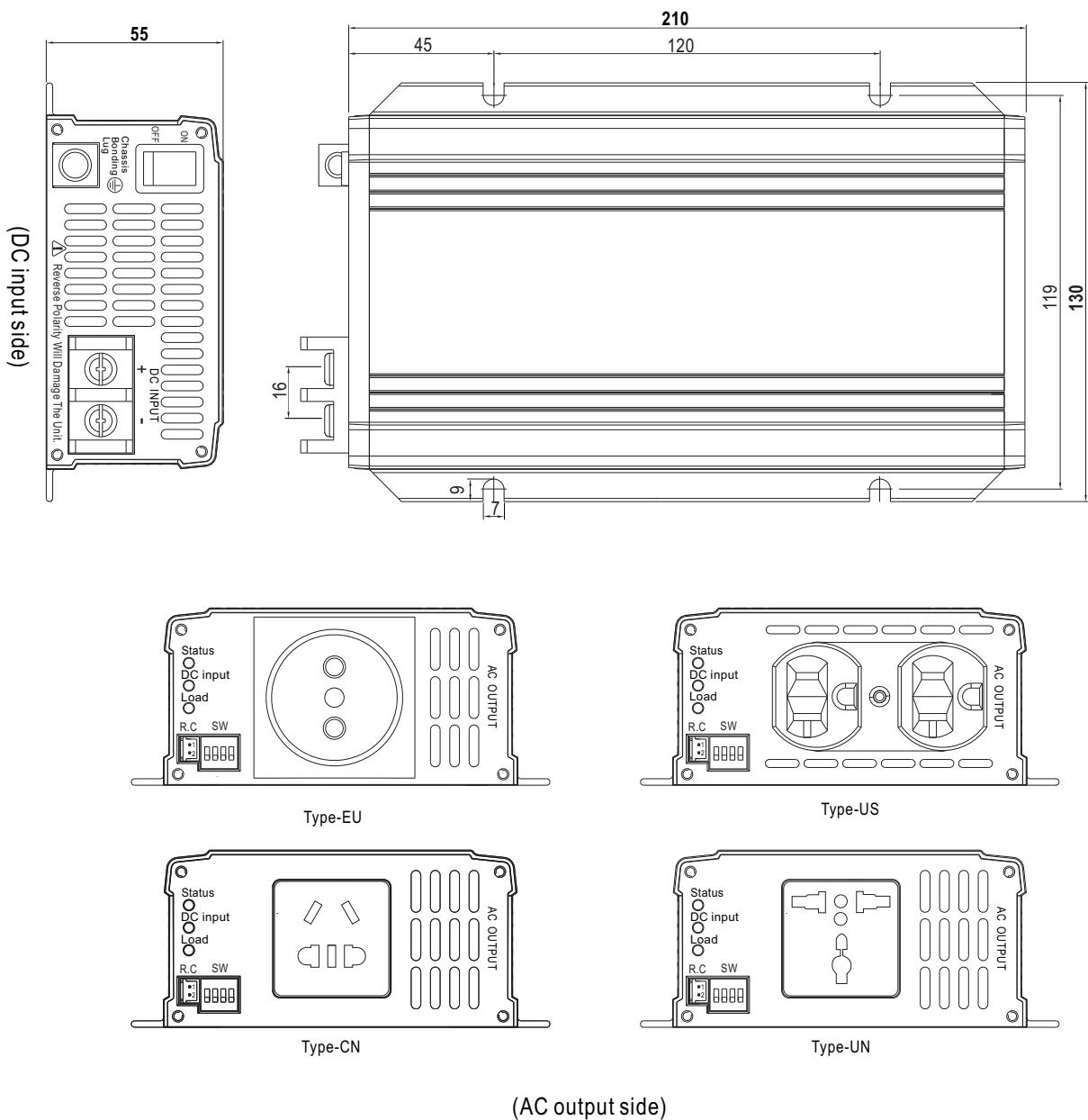
Light

Light off

Flash

■ MECHANICAL SPECIFICATION

Unit:mm



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		



300W High Reliable True Sine Wave DC-AC Power Inverter

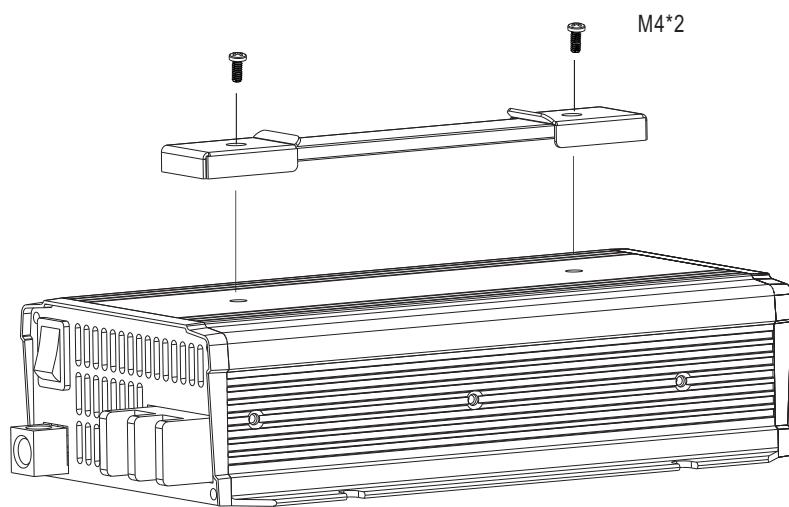
NTS-300 series

■ Accessory List

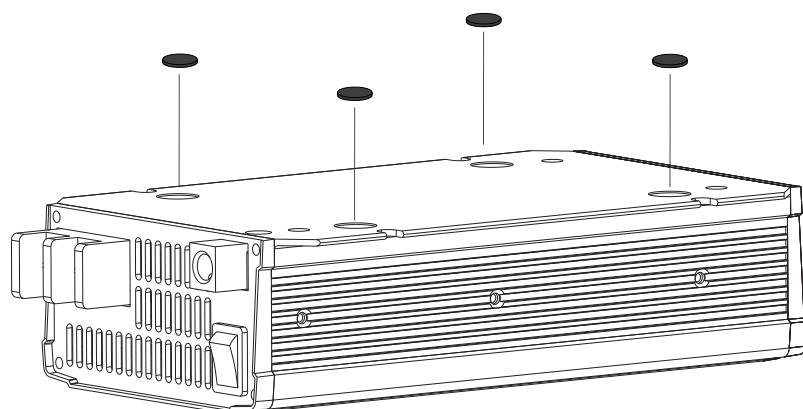
※ Carry handle (Optional accessory, Power inverter and Pull handle should ordered separately)

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

① Handle



② Foot pad



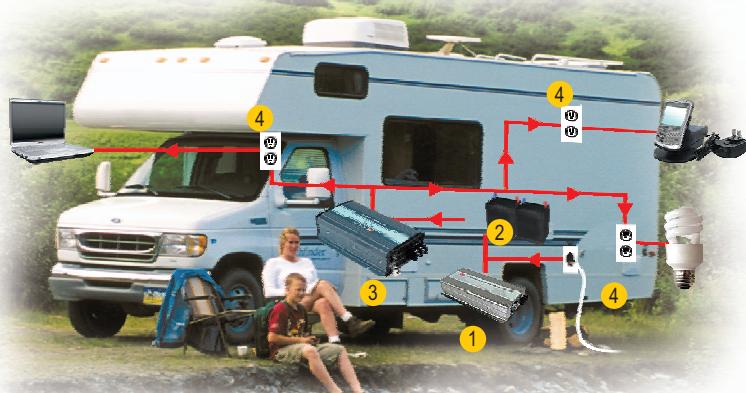
■ TYPICAL APPLICATION



- 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 DC/AC 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>