











AC output side





















- True sine wave output (THD<3%)
- High surge power up to 6400W
- · Temperature controlled cooling fan
- AC output voltage and frequency selectable by DIP S.W
- No load disspation <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

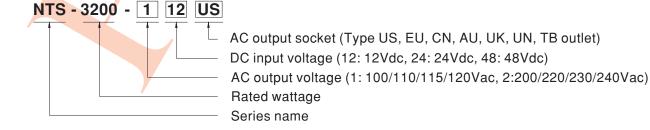
 $(IRC1, IRC2, IRC3\ accessory\ sold\ separately, please\ refer\ to:\ \underline{https://www.meanwell.com/webapp/product/search.aspx?prod=IRC1}\)$

- Support RS-232 communication(Communication cable order No.: DS-RJ11-RS232, sold sperately)
- Carry handle accessory available(Order NO.: DS-Carry handle, sold separately)
- · 3 years warranty

Description

NTS-3200 is a 3200W 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, 6400W 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-3200 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



Applications

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



SPECIFICATION

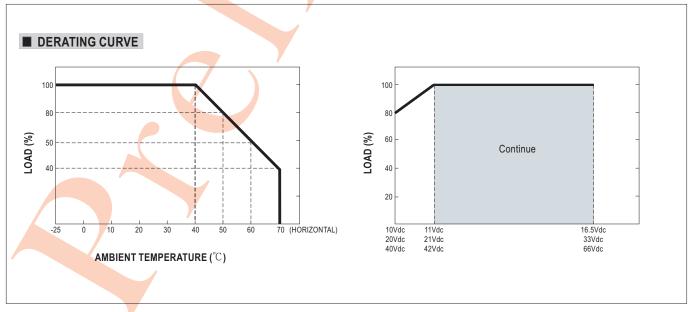
		NTS-3200-112	NTS-3200-124	NTS-3200-148	NTS-3200-212	NTS-3200	0-224□ NTS-3	3200-248		
MODEL NO.				□ = US, UN, TB	1		= EU, CN, AU, U	K, UN, TB	 }	
		RATED POWER(Continuous) OVER RATED POWER(3 Min.)		3000W			3200W	, - ,		
		PEAK POWER(10 Sec.)		4500W						
AC OUTPUT			,	6000W			6400W			
		SURGE POWER(30 Cycles)		Factory setting set at	± 110VΔC		Factory setting set at 2	2301/40		
		AC VOLTAGI	∃		/ac selectable by DIP	S W	200 / 220 / 230 / 240Va		ole by DIP S W	
				Factory setting set a		3.77	Factory setting set at 5	-	le by DIF 3.VV	
		FREQUENCY	1				, ,			
		WAVEFORM	Note 4	50/60Hz selectable to True sine wave (THD	•		50/60Hz selectable by	DIP 3.W		
		WAVEFORM		,	,					
		AC REGULA		±3.0% at rated inpu	t voltage					
		FRONT PANI		Please see page 5	0.071	40)//	1,0,4,	0.0771	4077	
		DC VOLTAGI		12Vdc	24Vdc	48Vdc		24Vdc	48Vdc	
		VOLTAGE RA		10 ~ 16.5Vdc	20 ~ 33Vdc	40 ~ 66Vdc		20 ~ 33V <mark>dc</mark>		iVdc
		DC CURREN	Т (Тур.)	300A	150A	75A		160A	80A	
C IN	PUT	NO LOAD DI			detect AC output load	I≦10W will be change	ed to <mark>s</mark> aving mode			
		(SAVING MOI	DE)(Typ.) Note.2	1.7W						
		OFF MODE C	URRENT DRAW	≦2mA						
		EFFICIENCY	(Typ.) Note.1	89%	90%	91%	90%	92%	93%	
		BATTERY TY	PES	Lead Acid or li-ion						
		FUSE (INTER	RNAL)	40A*12	40A*6	25A*6	40A*12	40A*6	25A*6	
			ALARM	11±0.3Vdc	22±0.5Vdc	44±1Vdc	11±0.3Vdc	22±0.5Vdd	c 44±1V	√dc
	_	LOW	SHUTDOWN	10±0.3Vdc	20±0.5Vdc	40±1Vdc	10±0.3Vdc	20±0.5Vdc	c 40±1V	√dc
	INPUT		RESTART	12.5±0.3Vdc	25±0.5Vdc	50±1Vdc	12.5±0.3Vdc	25±0.5Vdc	c 50±1V	√dc
			ALARM	15.5±0.3Vdc	31±0.5Vdc	62±1Vdc	15.5±0.3Vdc	31±0.5Vdc	c 62±1V	Vdc
8	DC	HIGH	SHUTDOWN	16.5±0.3Vdc	33±0.5Vdc	66±1Vdc	16.5±0.3Vdc	33±0.5Vdc	c 66±1V	Vdc
티			RESTART	15±0.3Vdc	30±0.5Vdc	60±1Vdc	15±0.3Vdc	30±0.5Vdc	c 60±1V	Vdc
PROTECTION		BAT. POLAR		By internal fuse open						
		OVER TEMP								
	OUTPUT			Protection type: Shut down o/p voltage, re-power on to recover 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						
	AC									
		TB TYPE		UL458 (Only for "TB" type AC socket) None Payer ON OFF remain control by front page I dry control connector (by BELAY). One p. Normal work / Short / Remain off						
		REMOTE	CONNECTOR	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 sold separately, Order No.: IRC1,IRC2,IRC3						
			MUNICATION	RS-232 ~ RJ11 Type connector (Please refer to page 4 for more details) -25 ~ +70°C (Refer to "Derating curve")						
		WORKING TI		-25 ~ +70°C (Refer to "Derating curve") 20% ~ 90% RH non-condensing						
NVIRO	NMENT	WORKING H								
			EMP., 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 STA	NDARDS	CB IEC62368-1,Dekra Seal 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		(VAC DCI/P-AC C	DIP:3.UKVAC AC O/	P - FG:1.5KVAC		T =	
				Parameter	Standard	10 1/	1.000		Test Level / No	te
			0.11	Radiated		48 only(expect for Typ	,		Class A	
		EMC EMISSI	UN			, ,	24,248 only(expect for T	ype-UN)	Class A	
AFE	TY			Harmonic Current	BS EN/EN61000-					
& EMC				Voltage Flicker	BS EN/EN61000-	-3-3				
Note.				BS EN/EN55024, B						
				Parameter	Standard			Test Lev	rel / Note	
		EMC IMMUN	ITY	ESD	BS EN/EN61000-	-4-2		Level 3, 8	8KV air ; Level 2,	4KV conta
				Radiated	BS EN/EN61000-	-4-3		Level 2, 3	3V/m	
				Magnetic Field	BS EN/EN61000-	-4-8		Level 1, 1	1A/m	
		MTBF		336.9K hrs min.	Telcordia TR/SR-332	(Bellcore); 30.5K	hrs min. MIL-HDBK-	217F (25°C	÷)	
THE	RS	DIMENSION		440*270*98mm (L*W*H)						
		PACKING		8.6Kg; 1pcs/ 10.4Kg/ 1.39CUFT						
- 1		1.Efficiency	, AC regulation a	nd THD are tested b	y 2400W load, linea	r load at 12.5Vdc/25	5Vdc/50Vdc input volta	ge.		
NOTE		2.No load d	isspation at non-	saving mode(Typ.):	112/124/148 for 25W	V, 212/224/248 for 5	5W.	•		
					ed at rated load, 25°	of ambient tempe	erature and set to factor	ry setting.		
NOTE		4.Internal pre-start circuit, the		e setup time is 8s.					vetem complies v	with the
NOTE		5. The power	r supply is consid	dered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the nee on how to perform these EMC tests, please refer to "EMI testing of component power supplies."						
NOTE		EMC direc	ctives. For guidar	nce on how to perfor						
NOTE		EMC direction (as availa	ctives. For guidar ble on http://www	nce on how to perfor v.meanwell.com)	m these EMC tests,	please refer to "EMI		power sup	oplies."	



■ AC Output Socket

MODEL NO.	NTS-3200-112	NTS-3200-124	NTS-3200-148 □	
Socket type				
	TYPE-US	TYPE-UN	TYPE-TB	
	In Stock	In Stock	In Stock	
Country	USA	UNIVERSAL	UNIVERSAL	
Certificate	CB F© DEKRA	None	CB F© c(1) us DEKRA	

MODEL NO.	NTS-3200-212		NTS-3200-224		NTS-3200-248 □	
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 (E13) DEKRA [III] CE LIK				CB E13 PDEKRA & EHI C EUK	E13 [A[

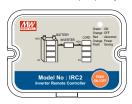


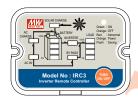


■ IRC1/2/3 Remote Controller (Accessory sold seperately)

- 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.



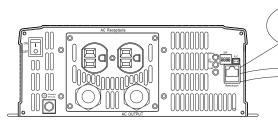


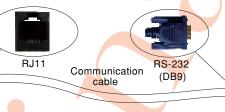


* Please refer to for more detail: https://www.meanwell.com/webapp/product/search.aspx?prod=IRC1

■ Support RS-232 Communication

• The internal data of single NTS-3200 can read through RS-232.







Personal Computer

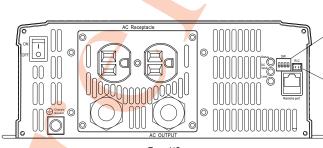
- * Please refer to for more detail: http://www.meanwell.com/manual.html
- 🔆 RJ11-RS232 Communication cable should be ordered seperately, Order No.: DS-RJ11-RS232

■ 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.



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 + Caving made			
OFF ON: 110Vac or 220Vac	ON . SURZ	ON: Saving mode			
ON OFF: 115Vac or 230Vac	OFF: 60Hz	OFF: Non-Saving mode			
ON ON: 120Vac or 240Vac	UFF. 00HZ	OTT. NOTE-Saving mode			



■ LED STATUS

Normal work:

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

	Green	Orange	Red
DC Innut	● 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:

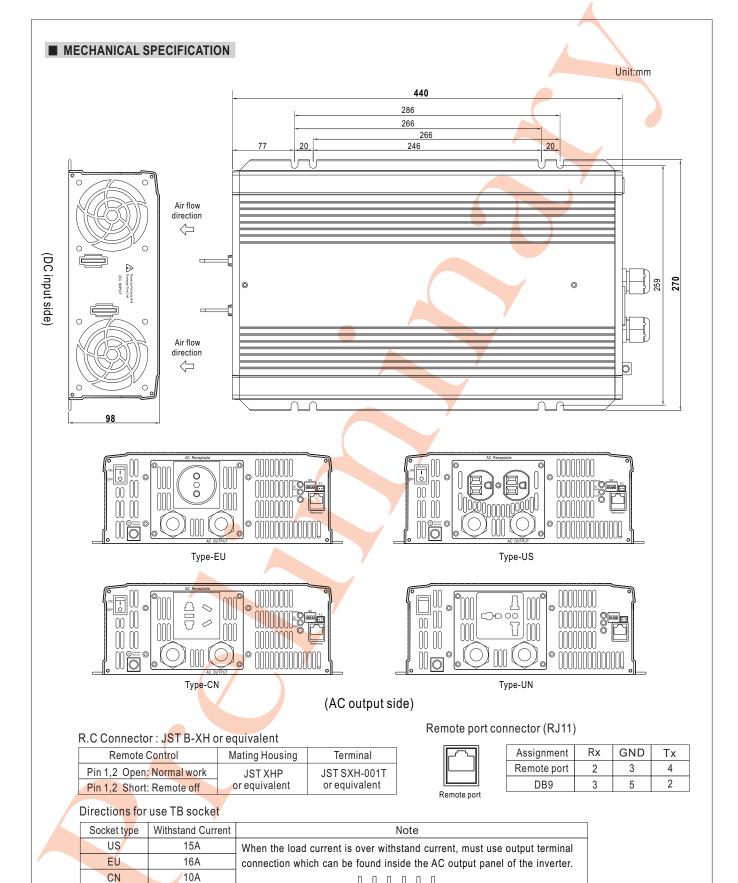
LED Indicator	Abnormal Indication
Status •	
DC Input O	Output overload or AC output short circuit
Load -	
Status •	
DC Input 🔆	Abnormal DC voltage
Load O	
Status •	
DC Input 🔆	Over temperature or Fan lock
Load	
Status -	7 \ '
DC Input O	Inverter fail
Load O	

Light

O Light off

- Flash





UN

UK AU 16A 13A

10A



■ Accessory List

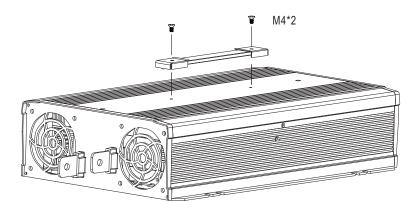
X Communication cable (Optional accessory, Power inverter and Communication cable should ordered seperately)

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

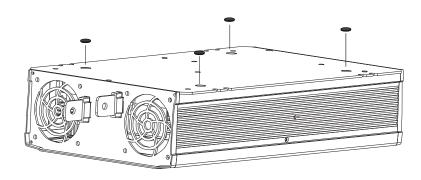
X Carryl handle (Optional accessory, Power inverter and Pull handle should ordered seperately)

MW's Order No.		Item		
	1	Handle	1	
DS-Carry Handle	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