



MW NTS/NTU Series DC-AC Pure Sine Wave Inverter User Manual

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MW NTS/NTU Series DC-AC Pure Sine Wave Inverter User Manual





DC-AC Pure Sine Wave Inverter
NTS/NTU Series





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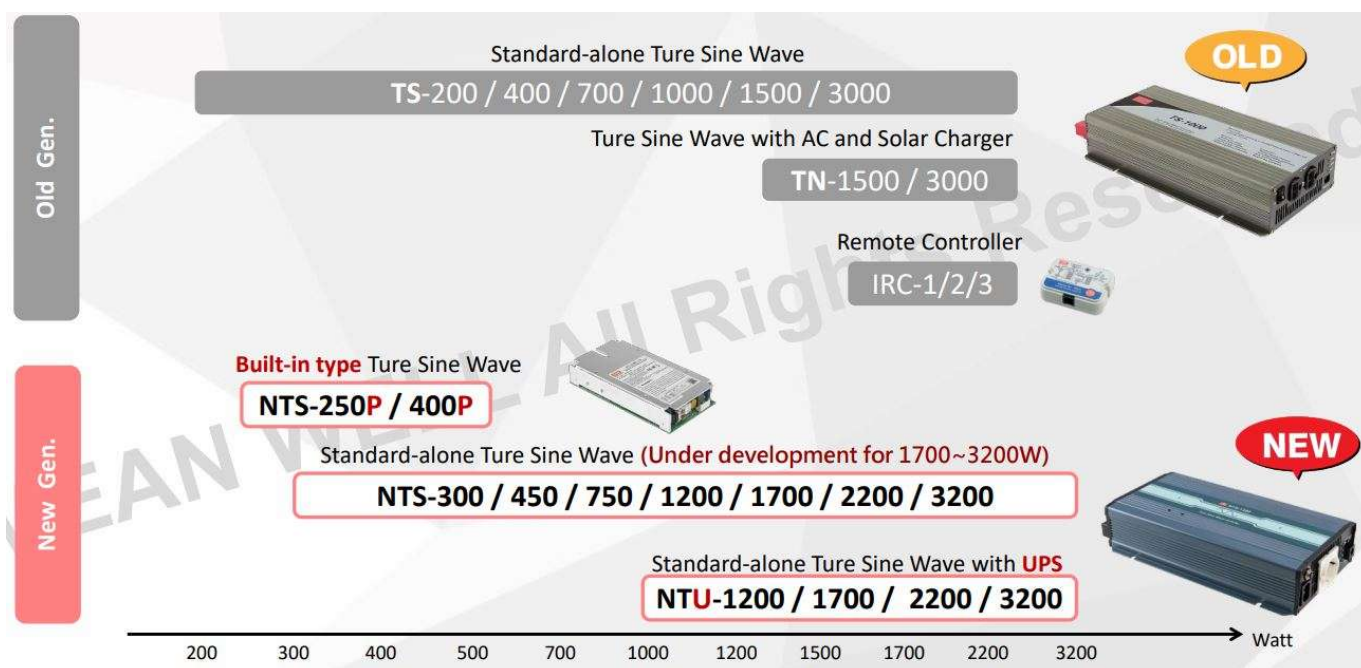
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Inverter Product Category

Type	Appearance	Series	Warranty
Sine Wave 		TS series DC-AC 200/400/700/1000/1500/3000W TN series DC-AC + Charger + UPS 1500/3000W	3 Years
		NTS series DC-AC 250/300/400/450/750/1200/1700/2200/3200W NTU series DC-AC + UPS 1200/1700/2200/3200W (Under development for 1700~3200W)	
Square wave 		A301/A302 series DC-AC 100/150/300/600/1000/1700/2500W	1 Year

True Sine Wave Inverter Roadmap



NTS/NTU Series Selection Table

Installation type	Series	Output Power	DC Input Voltage	AC Output Voltage	Built-in Fan	UPS	Dimension (mm)
Built-in type (PCB type)	NTS-250P	250W	10 ~ 16.5Vdc 20 ~ 33Vdc 40 ~ 66Vdc	100/110/115/120Vac 200/220/230/240Vac (Adjustable output by DIP SW)	✗		186*100.5*32
	NTS-400P	450W					186*100.5*32
External type	NTS-300	300W			✓	✗	210*130*55
	NTS-450	450W					210*130*55
	NTS-750	750W					270*158*67
	NTS-1200	1200W					333*184*67
	NTS-1700	1700W					400*184*67
	NTS-2200	2200W					400*270*98
	NTS-3200	3200W					440*270*98
	NTU-1200	1200W			✓	✓	333*184*67
	NTU-1700	1700W					400*184*67
	NTU-2200	2200W					400*270*98
	NTU-3200	3200W					440*270*98

Key Features

- Product Family: NTS-250P / 400P
NTS-300/450/750/1200/1700/2200/3200
NTU-1200/1700/2200/3200



- 200% peak power capability
- THD < 3%
- Selectable AC output voltage by DIP SW (100/110/115/120Vac or 200/220/230/240Vac)
- Selectable AC output frequency by DIP SW (50HZ or 60HZ)
- No-load power consumption < 1.5W max. in power saving mode
- Fanless design (NTS-250P/400P/300)
- Built-in intelligent temperature control cooling fan(NTS-450~3200 / NTU-1200~3200)
- Multi-intelligent protections (Automatic shutdown when abnormal) :
DC input- Reverse polarity/Bat. low alarm/Bat. low shutdown/Over voltage
AC output - Short circuit/Overload/Over temp.
- -25~+70°C working temperature
- Remote controller– IRC1 / IRC2 / IRC3 (NTS-750~3200 / NTU-1200~3200 applicable)
- Pull handle optional accessory
- Built-in UPS function (NTU-1200~3200)
- Comply with international certification, safety is guaranteed
- Suitable for lead-acid or li-ion batteries
- 3 years warranty



IRC



NTS/NTU



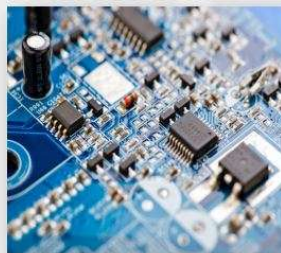
NTS-P

NTS/NTU Inverter – 3 Key Features



Safe

- Intelligent protection
- Global Certification



Durable

- High-quality components
- 3 years warranty



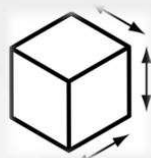
Off-the-shelf

- Off-the-shelf product
- Sales channel over the World

NTS/NTU Series– 6 Optimizations



Packaging
upgrade



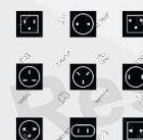
Size
miniaturization



Specification
upgrade



User
friendly



Support variety
of sockets



Affordable
Price

Packaging Upgrade(1)- Eco Friendly

Old Gen. — TS Series



Polyethylene(EPE)



Ink (toluene, xylene)



New Gen . — NTS/NTU Series



Paper Pulp



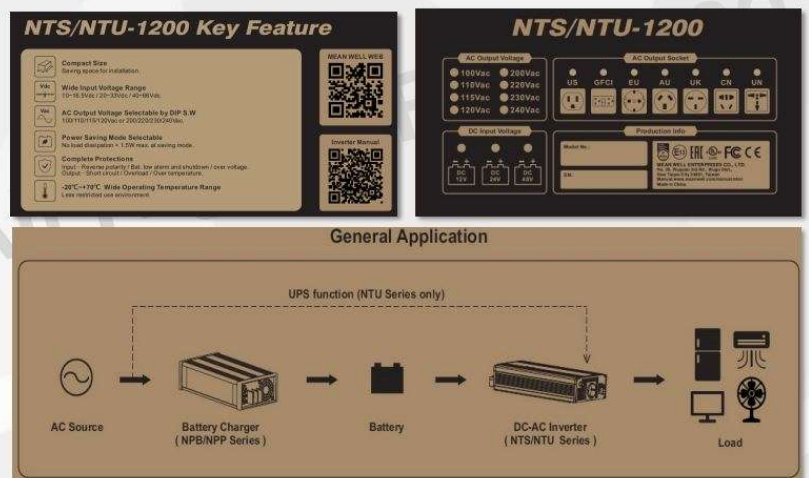
Ink free

Packaging Upgrade(2)-User Friendly

Old Gen. — TS Series



New Gen. — NTS/NTU Series



Size Miniaturization

Old Gen. — TS Series









New Gen. — NTS/NTU Series



Old Gen.	
	
Series	Dimension
NA	NA
TS-200	205*158*59
TS-400	205*158*67
TS-700	295*184*70
TS-1000	345*184*70
TS-1500	420*220*88
NA	NA
TS-3000	466.8*283.5*100

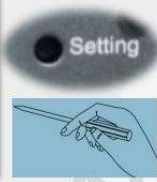
New Gen.		Reduced size(%)
Series	Dimension	
NTS-250P/400P	186*100.5*32	NA
NTS-300	210*130*55	-21%
NTS-450	210*130*55	-31%
NTS-750	270*158*67	-25%
NTS/NTU-1200	333*184*70	0%
NTS/NTU-1700	400*184*70	-37%
NTS/NTU-2200	400*270*98	NA
NTS/NTU-3200	440*270*98	-12%

Specification Upgrade

Old Gen.-TS Series		New Gen.-NTS/NTU Series	
Output Power	Built-in type: N/ A Stand alone: 200/400/700/1000/1500/3000W		Built-in type: 250/400W Stand-alone type: 300/450/750/1200/1700/2200/3200W
Output Voltage	10.5~ 15Vdc 21 ~ 30Vdc 42 ~ 60Vdc		10~16.5Vdc 20~33Vdc 40~66Vdc
No-load power consumption	6~15W (by model) In power saving mode		1.2~1.5W (by model) in power saving mode
Efficiency	84.5~92%		89~93%
Working Temp.	0~ +60°C		-25~ +70°C
R.C	only 200/400W		250~3200W whole product family
Multi-intelligent protections	Input: Reverse polarity/DC low alarm/Over voltage Output : Short circuit/Overload/Over temp.		Input: Reverse polarity/DC low alarm/Over voltage/Battery over discharge Output : Short circuit/Overload/Over temp.
Communication	NA		(250W/400W Built-in, Optional for other models)
UPS	NA		(NTU Series only)
Safety Approvals	CB IEC62368-1 UL458 (for 112/124 type F only) E13 EAC TPTC004 FC CE		CB IEC62368-1 DEKRA UL458 (for 112/124 type F only) E13 EAC TPTC004 AS/NZS 62368-1 FC CE

Operation Interface-User Friendly

Old Gen.-TS Series



New Gen.-NTS/NTU Series



Selectable by DIP S.W			
SW1	SW2	SW3	SW4
OFF	OFF : 200Vac	ON : 50Hz	ON : Saving mode
OFF	ON : 220Vac		
ON	OFF : 230Vac	OFF: 60Hz	OFF: Non-Saving mode
ON	ON : 240Vac		



Support Variety of Sockets &No MOQ

Old Gen.-TS Series



Type-U.S.



Type-EU



New Gen.-NTS/NTU Series



Type-U.S.



Type-EU



Type-CN



Type=Uni.

Other Optimizations – Pull Handle(Optional)

Old Gen.-TS Series

No pull handle



New Gen.-NTS/NTU Series

With pull handle design,
more convenient to carry



Other Optimizations – Label Manual

Old Gen.-TS Series



New Gen.-NTS/NTU Series

MW MEAN WELL **NTS-750-212EU**
750W True Sine Wave Inverter

DC Input : 12Vdc, 75A
AC Output : Default 230Vac/50Hz, 3.26A
200/220/230/240Vac, 50/60Hz selectable
Rated Power : 750W continuous

ERC DEKRA **E13** 10R-06 15828 **CE** **10**

MEAN WELL ENTERPRISES CO., LTD.
No. 28 Wuquan 3rd Rd., Wugu Dist., New Taipei City 24891, Taiwan
Manual: www.meanwell.com/manual.html **MADE IN CHINA MW02**

WARNING :
Risk of electric shock. Do not remove cover, no user serviceable parts inside. Refer to qualified service personnel.
Disconnect all sources of AC and DC power before servicing.
Fire and explosion hazard. This device can cause arcs or sparks and is not ignition protected. Do not install in places containing gasoline, gasoline fueled engines or gasoline tanks or in areas where ignition protected equipment is required. To minimize risk of electric shock, do not expose to rain or spray. Do not block ventilation openings or mount in zero clearance compartments to avoid overheating.

Selectable by DIP S.W			
SW1	SW2	SW3	SW4
OFF	OFF : 200Vac	ON : 50Hz	ON : Saving mode
ON	ON : 220Vac	OFF : 60Hz	OFF : Non-Saving mode
ON	ON : 230Vac		
ON	ON : 240Vac		

QR Code:

MW MEAN WELL **NTS & NTU Series**
Installation manual

True Sine Wave Inverter
High Purity Sine Wave Inverter

7. 保固
本產品符合規格條件下，可獲得3年之無償原廠維修服務，請勿自行更換零件或材料。
本產品執行任何形式的修改或維修，以免影響原廠之正常保固服務之權利。
※ 明確保留有修改技術之權利，恕不另行通知。
資訊查詢: <http://www.meanwell.com>

QR Code:

NTU Series-Built UPS Function

When AC grid is normal: AC by-pass supply power to the load directly

When AC grid fails: the battery converts AC power to the load



NTU Series UPS Application

Alternate Power Supply in Districts (Example)



Application

No AC Grid Mobile AC Power Supply



- Mobile medical carts / Ambulances / Gardening vehicle / Camping vehicles / Refrigerated vehicles

- Off-grid equipment: Industrial-grade vacuum, forklift
- Mobile power bank

With AC Grid UPS Backup Power Supply



- Power supply in countries and regions with unstable power grids
- Office Home backup power
- Fire protection facility backup
- Communication equipment backup
- Elevator safety backup

Common Load





Documents / Resources



[MW NTS/NTU Series DC-AC Pure Sine Wave Inverter](#) [pdf] User Manual
NTS NTU Series DC-AC Pure Sine Wave Inverter, NTS NTU Series, DC-AC Pure Sine Wave Inverter, Pure Sine Wave Inverter, Wave Inverter, Inverter

[Manuals+](#)