

Explorer Bus

AC-DC BATTERY CHARGER

120~326W Portable Battery Charger
 300~1000W Stationary Battery Charger

DC-AC POWER INVERTER

- ► 500W Stand-alone Solar Inverter
- ► 100~2500W Modified Sine Wave
- ► 200~3000W True Sine Wave
- ▶ 1500~3000W True Sine Wave with Solar Charger

Total Solution For

Power Inverter & Battery Charger

V-3000

N-150

About MEAN WELL

Established in 1982, MEAN WELL is a leading manufacturer of standard switching power supplies. In response to the world's energy-saving trend, we've come up with a green power solution that include DC/AC inverters, solar inverters, and battery chargers to fullfill the alternative energy requirements in the market. Those products are highly efficient, save energy, low power consumption and approved by global safety/EMC certificates per TUV, UL, and CE, which greatly guarantee your safety for all-purpose solar power applications and any charging system, such as electric scooter, electric bicycle, electric wheelchair... etc.

1

Backed by 31 years' experience, we have over 5,000 products that allow us to provide "one stop shopping" to our customers. Every product in the MEAN WELL range is the result of rigid procedures governing design, design verification test (DVT), design quality test (DQT), component selection, pilotrun production, and mass production. With our network of over 200 distributors in over 70 countries globally, your order can be delivered within 24 hours. No minimum order required. To source from a trusted industry supplier, contact us today!

Index

- GC/PB Series 120~326W Portable Battery Charger
- 2 PB Series 300~1000W Stationary Battery Charger ISI Series 500W Stand-alone Solar Inverter (Built-in MPPT Charger)
 - 3 A301/302 Series 100~2500W Modified Sine Wave Inverter
 - 4-5 TS Series 200~3000W True Sine Wave Inverter

6 **TN Series** 1500~3000W True Sine Wave Inverter with Solar Charger

Setting Procedure via Front Panel for TN/TS-1500/3000 Series

- 8 Comparison of UPS and Energy Saving Mode for TN Series
 - 9 Applications



Features

- Universal AC input / Full range
- AC input range selectable by switch (PB-120)
- No load power consumption<0.5W (GC120)
- No load power consumption < 1W (GC160/220/330)
- High efficiency up to 94%
- Built-in active PFC function, PF>0.9 (GC series) Built-in passive PFC function (PB-120)
- Fully enclosed plastic case (GC series)
- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Fanless design , cooling by free air convection (GC series)

- Cooling by built-in DC fan (PB-120/230) • Built-in ON/OFF power switch (PB-120/230)
- Built-in remote ON/OFF control (PB-230)
- Protections: Short circuit / Over voltage / Over temp. / Reverse polarity (PB-120/230)
- LED indicator for charging status
- Especially suitable for portable usage
- Charger for Lead-Acid, Li-Lon, Gel cell batteries
- 2 years warranty



	1			X							
▲ GC120 167x 67x 35 mm		GC160 '2x 35 mm 2	▲ GC220 210x 85x 46 mm		▲ GC330 220x 95x 46		▲ PA/PB-12 180x 96x 49 m	-	▲ PB-230 190x 96x 49 mm		
Model Name		GC120 GC160	GC220	GC330]		20 A: pulse charge B: 2 section voltage	e charge	PB-230		
AC input voltage range 85~264VAC 90~264VAC				88~132VAC / 176~264VAC selectable by switch 90~264VAC							
Charge style		2 stage				3 sta	ge				
	Over voltage protection105%~135%, shut off O/P voltage, re-power on to recover				108% re-p	~127%, shut off out ower on to recover (put voltag PB–230: 1	je, 02%~125%)			
Withstand voltage I/P-O/P: 3kVAC, 1 minute											
Working temperature -30~+70°C -30~60°C					-10~	√+45°C		30: 102%~125%) -20~+50°C UL1012 (AD1-Type only),			
Safety standards		EN	C120~220: UL1012 (AD1-Type only), EN60950-1UL60950-1, TUV EN60950-1:330: UL60950-1, EN60950-1EN60335-2-29 (except for 5)								
EMC standards	EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, FCC part15 class B EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3			00-4-2,3,	4,5,6,8,11,						
Standard DC output (Male, power supply si		Power DIN 4P wi Kycon KPPX-4P		4P/AMP equivale	1–480702–0 ent	міс :	3P		MIC 4P		
		120W					120W				
					Model Na	ame	Wattage	Output	Effi.		
Model Name GC120A12-□	Wattag 102W		Effi 0A 86.5		P□-120		•	3.8V, 0~7.2A	the second se		
GC120A12-	102W				P□-120)-27		7.6V, 0~4.3A			
GC120A48-	120W				P□-120)-54	121W 5	5.2V, 0~2.2A	79.0%		
$\Box = R7B, AD1$	12000	J4.4V, Z.Z	IA 91.0	/0			230W				
					Model N	ame	Wattage	Output	Effi.		
		160W			PB-230-		-	4.4V, 0~16A			
					PB-230-			8.8V, 0~8A	85.5%		
Model Name GC160A12-□	Wattag 136W		Effi A 89.0		PB-230-			7.6V, 0~4A	86.0%		
GC160A24-□	136W 160W	,			L = Bla	ink, AD	1; Blank: Power DIN 4	P, AD1: And	erson Connector		
GC160A48-	160W	,			Model Na	ame	Output Connector		Safety		
□ = R7B. AD1	100 10	54.40, 2.95	DA 94.0	70	GC120A	-R7B		1			
					GC160A	-R7B	-	As	CB FC (E		
	, ,	218W			GC220A△ PB-230-△		Power DIN 4P		(GC series only)		
Model Name	Wattag	e Output	Effi				()				
GC220A12-	184W	13.6V, 13.	5A 89.0	%	GC160A	-AD1		(h) A	SCBF©CE		
GC220A24-□	218W	27.2V, 8A	92.5	%	GC220A			arthurse.	(GC series only)		
GC220A48-	218W	54.4V, 4A	93.0	%	PB-230-△	AD1	Anderson Connector				
□ = R7B, AD1									- ADTACC		
		326W			GC330AO	-C4P	AMP Connector		€ CBF©(€		
Model Name	Wattag	e Output	Effi				only for "Anderson Co				
GC330A36-C4P GC330A48-C4P	326W 326W	40.8V, 8/	A 93.5	%			R7B: Power DIN 4P, AD 4P: AMP 1-480702-0 e		Connector		
		····, ·/									



300~1000W

Stationary Battery Charger

Please refer to www.meanwell.com for detail spec Features Built-in remote ON/OFF control • Universal AC input / Full range (PB-600/1000) • 2/3/8 stage smart charger for PB-600/1000 • AC input range selectable by switch (PB-300/360) • Built-in passive PFC function (PB-300P/360P) Protections: • Built-in active PFC function (PB-600/1000) Short circuit / Over voltage / Over temperature / Reverse polarity • LED indicator for charging status • 3 poles AC inlet IEC320-C14 • 3 years warranty • Cooling by built-in DC fan (except for PB-300) • Built-in ON/OFF power switch A PB-600 230x 158x 67 mm ▲ PB-1000 300x 184x 70 mm ▲ PB-300 253x 135x 48.5 mm ▲ PB-360 253x 135x 48.5 mm Model Name PB-300 PB-360 PB-600 PB-1000 AC input voltage range 90~132VAC / 180~264VAC selectable by switch 90~264VAC 2/3/8 stage (selectable) Charge style 3 stage Over voltage Range 108%~125% 112%~125% 110%~125% protection shut off output voltage, re-power on to recover Туре I/P-O/P: 3kVAC, 1 minute Withstand voltage $-10 \sim +50^{\circ}C$ Working temperature $-20 \sim +60^{\circ}C$ PB-300/360: UL60950-1, CB IEC60335-2-29 (except for 48V) PB-600: UL1012, TUV EN60950-1 (48V only), TUV EN60335-2-29 (except for 48V) Safety standards PB-1000: UL60950-1, TUV EN60950-1 EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3 (except for PB-300N/360N) EMC standards Terminal block 2P Terminal block 3P DC output connector 300W 600W Model Name Wattage Output Effi. Model Name Wattage Output PB-300 -12 300W 14.4V, 0~20.85A 85% PB-600-12 576W 14.4V, 0~40.0A PB-300-24 302W 28.8V, 0~10.5A 86% PB-600-24 605W 28.8V, 0~21.0A PB-300 -48 305W 57.6V, 0~5.3A 88% PB-600-48 = P, N ; P: with PFC, N: non PFC 605W 57.6V, 0~10.5A

	36	0W			100	OW	
Model Name	Wattage	Output	Effi.	Model Name	Wattage	Output	Effi.
PB-360 -12	350W	14.4V, 0~24.3A	85%	PB-1000-12	864W	14.4V, 0~60.0A	85%
PB-36024 PB-36048	360W 360W	28.8V, 0~12.5A 57.6V, 0~6.25A	86% 87%	PB-1000-24	999W	28.8V, 0~34.7A	88%
□ =P, N ; P: with	PFC, N: non F	PFC		PB-1000-48	1002W	57.6V, 0~17.4A	89%

500W DC/AC Off-Grid Solar Inverter

Features

- True sine wave output (THD<3%) • Built-in 500W MPPT solar charger,
- MPPT efficiency: 98% (Peak)
- High surge power up to 1000W
- Output voltage / Frequency adjustable
- High efficiency up to 88%
- · Front panel indicator for operation status Protections:
 - Input: Bat. low alarm / Bat. low shutdown / Reverse polarity / Over voltage
- Output: Short circuit / Overload / Over temperature • 3 years warranty



Effi.

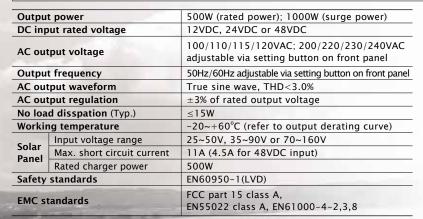
86%

87%

89%

FCC/CE pending

205x 158x 67 mm



Model Name	Continue Power	Input VDC	Output VAC/Hz	Output socket	Effi.			
ISI-501-112	450W	10.5~15	110/60	TYPE-A	85%			
ISI-501-124	500W	21~30	110/60	TYPE-A	87%			
ISI-501-148	500W	42~60	110/60	TYPE-A	87%			
ISI-501-212	450W	10.5~15	230/50	TYPE-B	86%			
ISI-501-224	500W	21~30	230/50	TYPE-B	88%			
ISI-501-248	500W	42~60	230/50	TYPE-B	88%			
🗌 = A, B (standard model), C, D, E, F, U (optional model)								
Please refer	to Page 4 f	or AC outp	ut recepta	cle list				

Please refer to www.meanwell.com for detail spec.

2

100~2500wModified Sine Wave

Please refer to www.meanwell.com for detail spec.

Feati	ures							Please	refer to wu	w.meanwell.	com for deta	ail spec.
• High freq • Input pro	uency desig tections:		der voltage	/ Battery J	ow ala	rm a	nd shutdown		6	0.40		
	rotections: S					i i i a				e 13 C		
	er ON/OFF s				·		AC Output R	eceptacle	(optional)) for A301/A	302 Series	
	emote ON/O				nal)							
	ISB interface			100W				┑║│(━ ┋				
-	l output full er consumpt	-										
	EN60950-						PAN USA			PE-4 TYPI ERSAL AUSTR		
• EMC meet	t EN61000-	4-2,3, EN	5022			► Ple	ase consult Mean	Well for other	r kinds of opt	tional socket.		<u>.</u>
• 1 year wa	rranty					TY	PE-2,3 (standard	model); TYP	E-1,4,5,6 (or	otional model)		
							- Aller		đ	ALCON ALCON	Sec.	
			6					-				
		}				1		6				
		ſ										
	(Built-in USB	s) 🔺	150W / 110V	122x 73x 45	mm		600W 210x 17	3x 65 mm		▲ 1500W 4	55x 210x 85 m	ım
17(0mmx 65ø											
	and the second s					5						
			South Street of the	-		1000	The second				-	
									3			
	150W / 230V											IP.
	5x 94x 69 mm		▲ 300W 16	5x 88x 74 mm			▲ 1000W 320	x 210x 85 mm		▲ 2500W 43	0x 210x 159 r	nm
Model Name	5		A301					A302				
DC input rat			12.5VDC				A C (um c) / E O	25.0VD	С			
AC output v Max. output		equency					AC(rms) / 50 000W, 1500W					
USB output	power		5VDC / 5	500mA (10	0W on	ly)						
AC output r Bat. low ala			±10% of 10±0.5V	rated outp	ut vol	tage		20.5±1	0/00			
Bat. low shu			9.5±0.5					19.5±1				
I/P over vol		tion	15~17VE		6 2			30~32	/DC			
Working ten Safety stand				$\frac{1}{100} (0 \sim +25^{\circ}C)$				_	-			
EMC standa							B, e-mark, E	N61000-4	-2,3			
		100W							1000	W		
Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.		Model Name	Continue	Input VDC	Output VAC / Hz	Output socket	Effi.
A301-100-F3	100W	10-15	230 / 50	TYPE-3	90%		A301-1K0-B2	power 1000W	10-15	110 / 60	TYPE-2	82%
A302-100-F3	100W	21-30 150W	230 / 50	TYPE-3	90%		A301-1K0-F3	1000W	10-15	230 / 50	TYPE-3	82%
Madel N	Continue	Input	Output	Output	F.(//		A302-1K0-B2	1000W	21-30	110 / 60	TYPE-2	85%
Model Name A301-150-B2	power 150W	VDC 10-15	VAC / Hz 110 / 60	socket TYPE-2	Effi. 78%		A302-1K0-F3	1000W	21-30	230 / 50	TYPE-3	85%
A301-150-F3	150W	10-15	230 / 50	TYPE-3	78%				1500			
A302-150-B2 A302-150-F3	150W 150W	21-30 21-30	110 / 60 230 / 50	TYPE-2 TYPE-3	82% 82%		Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
		300W					A301-1K7-B2	1500W	10-15	110 / 60	TYPE-2	82%
Model Name	Continue	Input	Output	Output	Effi.	Ī	A301-1K7-F3	1500W	10-15	230 / 50	TYPE-3	82%
A301-300-B2	power 300W	VDC 10-15	VAC / Hz 110 / 60	socket TYPE-2	82%		A302-1K7-B2	1500W	21-30	110 / 60	TYPE-2	85%
A301-300-F3 A302-300-B2	300W 300W	10-15 21-30	230 / 50 110 / 60	TYPE-3 TYPE-2	82% 85%		A302-1K7-F3	1500W	21-30	230 / 50	TYPE-3	85%
A302-300-B2 A302-300-F3	300W	21-30	230 / 50	TYPE-3	85%			Continue	2500		Output	
		600W					Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.		A301-2K5-B4	2500W	10-15	110 / 60	TYPE-2	82%
A301-600-B2	600W	10-15	110 / 60	TYPE-2	82%		A301-2K5-F3	2500W	10-15	230 / 50	TYPE-3	82%
A301-600-F3 A302-600-B2	600W 600W	10-15 21-30	230 / 50 110 / 60	TYPE-3 TYPE-2	82% 85%		A302-2K5-B4	2500W	21-30	110 / 60	TYPE-2	85%
A302-600-F3	600W	21-30	230 / 50	TYPE-3	85%		A302-2K5-F3	2500W	21-30	230 / 50	TYPE-3	85%



200~700w True Sine Wave

Features

- True sine wave output (THD<3%)
- 2 times high surge power for motor related application
- $\boldsymbol{\cdot}$ Advanced digital control by microprocessor
- Output voltage / frequency adjustable
- High efficiency up to 91%
- Conformal coating for TS-700
- \cdot Standby saving mode to conserve energy (TS-700)
- \cdot Built-in fan ON/OFF control function (TS-400/700)
- \cdot Fanless design, cooling by free air convection (TS-200)
- $\boldsymbol{\cdot}$ Front panel indicator for load / battery / operation status

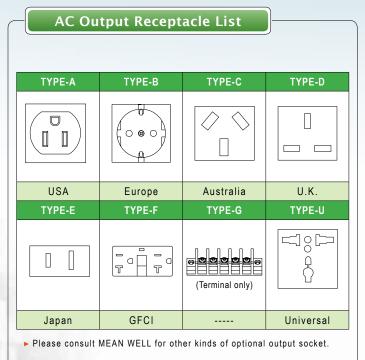
- Please refer to www.meanwell.com for detail spec.
- High frequency design
- Input protections: Bat. low alarm / Bat. low shutdown / Reverse polarity / Over voltage
- Output protections:
- Short circuit / Overload / Over temperature
- Applications:
 - Home appliance, power tools, office and portable equipment, vehicle and yacht...etc.
- 3 years warranty



		TS-200	TS-400	TS-700				
		205x 158x 59 mm	205x 158x 67 mm	295x 184x 70 mm				
Rated output power		200W	400W	700W				
Maximum output	nower	230W for 3 minutes;	460W for 3 minutes;	800W for 3 minutes;				
Maximum output power		300W for 10 sec.	600W for 10 sec.	1050W for 10 sec.				
Output surge ratin	IG (30 cycles)	400W	800W	1400W				
DC input rated vo	ltage	12VDC, 24VDC or 48VDC						
AC output voltage	2	100 / 110 / 115 / 120VAC; 200 / 220 / 230 / 240VAC adjustable via setting button on front panel						
Output frequency		50Hz / 60Hz adjustable via setting button on front panel						
AC output wavefo	rm	True sine wave, THD<3.0%						
AC output regulat	ion (Typ.)	\pm 3% of rated output voltage						
No load dissipation	on (Typ.)	≤15W		≤6W@standby saving mode				
Working temperat	ure	-10~+60°C		0~+60°C				
Safety standards	110V	Design refer to UL458						
Salety standards	230V	Compliance to EN60950-1(LVE	0)					
EMC standards	110V	Compliance to FCC part 15 cla	ss A					
ENIC Stanuarus	230V	Compliance to EN55022 class	A, E-Mark, EN61000-4-2,3,8					

200W

		200			
Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
TS-200-112A	200W	10.5-15	110 / 60	TYPE-A	86.0%
TS-200-124A	200W	21.0-30	110 / 60	TYPE-A	87.5%
TS-200-148A	200W	42.0-60	110 / 60	TYPE-A	88.0%
TS-200-212B	200W	10.5-15	230 / 50	TYPE-B	86.0%
TS-200-224 B	200W	21.0-30	230 / 50	TYPE-B	87.5%
TS-200-248 B	200W	42.0-60	230 / 50	TYPE-B	88.0%
		400W			
Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
TS-400-112A	400W	10.5-15	110 / 60	TYPE-A	84.5%
TS-400-124A	400W	21.0-30	110 / 60	TYPE-A	86.0%
TS-400-148A	400W	42.0-60	110 / 60	TYPE-A	87.0%
TS-400-212B	400W	10.5-15	230 / 50	TYPE-B	86.0%
TS-400-224 B	400W	21.0-30	230 / 50	TYPE-B	87.5%
TS-400-248B	400W	42.0-60	230 / 50	TYPE-B	88.5%
		700W			
Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
TS-700-112A	700W	10.5-15	110 / 60	TYPE-A	86%
TS-700-124A	700W	21.0-30	110 / 60	TYPE-A	88%
TS-700-148A	700W	42.0-60	110 / 60	TYPE-A	89%
TS-700-212B	700W	10.5-15	230 / 50	TYPE-B	89%
TS-700-224 B	700W	21.0-30	230 / 50	TYPE-B	90%
TS-700-248B	700W	42.0-60	230 / 50	TYPE-B	91%
= A B (standar		E E (ontion	al model)		-



= A, B (standard model), C, D, E, F (optional model)



1000~3000W 🧠 True Sine Wave

Please refer to www.meanwell.com for detail spec.

- Features
- True sine wave output (THD<3%)
- · 2 times high surge power for motor related application
- · Advanced digital control by microprocessor
- · High efficiency up to 92%
- Conformal coating
- Standby saving mode to conserve energy
- Built-in fan ON/OFF control function
- · Output voltage / frequency adjustable
- Front panel indicator for load / battery /
- operation status

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- High frequency design
- Input protections:
 - Bat. low alarm / Bat. low shutdown / Reverse polarity / Over voltage
- Output protections:
- Short circuit / Overload / Over temperature
- Applications:
- Home appliance, power tools, office and portable
- equipment, vehicle and yacht...etc.
- 3 years warranty



TS-1000	TS-1500	TS-3000
345x 184x 70 mm	420x 220x 88 mm	466.8x 283.5x 100 mm
1000W	1500W	3000W
1150W for 2 minutos	1725W/ for 2 minutor :	2450W/fex 2 minutes :

Rated output powe	er	1000W	1500W	3000W				
Maximum output power		1150W for 3 minutes; 1500W for 10 sec.	1725W for 3 minutes ; 2250W for 10 sec.	3450W for 3 minutes ; 4500W for 10 sec.				
Output surge ratin	g (30 cycles)	2000W	3000W	6000W				
DC input rated voltage 12VDC, 24VDC or 48VDC								
AC output voltage		100 / 110 / 115 / 120VAC or	200 / 220 / 230 / 240VAC adjusta	ble via setting button on front panel				
Output frequency		50Hz/60Hz adjustable via setting button on front panel						
AC output wavefo	rm	True sine wave, THD<3.0%						
AC output regulat	ion (Typ.)	±3% of rated output voltage						
No load dissipatio	n (Typ.)	\leq 6W @ standby saving mode	≤18W @ standby saving mode	≤10W @ standby saving mode				
Working temperat	ure	0~+60°C						
Safety standards	110V	UL458 approved (except for	48V and only for GFCI receptacle)	UL458 approved for TYPE-G				
Salety Stalluarus	230V	Compliance to EN60950-1	(LVD)					
EMC standards	110V	Compliance to FCC part 15	class A					
EMC Standards	230V	Compliance to EN55022 class A (class B for TS-1500), E-Mark, EN61000-4-2,3,8						

Output



Model Name	power	VDC	VAC / Hz	socket	ETTI.
TS-1000-112A	1000W	10.5-15	110 / 60	TYPE-A	88%
TS-1000-124A	1000W	21.0-30	110 / 60	TYPE-A	89%
TS-1000-148A	1000W	42.0-60	110 / 60	TYPE-A	90%
TS-1000-212B	1000W	10.5-15	230 / 50	TYPE-B	90%
TS-1000-224B	1000W	21.0-30	230 / 50	TYPE-B	91%
TS-1000-248B	1000W	42.0-60	230 / 50	TYPE-B	92%
		1500W			

		13001							
Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.				
TS-1500-112A	1500W	10.5-15	110 / 60	TYPE-A	87%				
TS-1500-124A	1500W	21.0-30	110 / 60	TYPE-A	89%				
TS-1500-148A	1500W	42.0-60	110 / 60	TYPE-A	89%				
TS-1500-212B	1500W	10.5-15	230 / 50	TYPE-B	88%				
TS-1500-224 B	1500W	21.0-30	230 / 50	TYPE-B	90%				
TS-1500-248 B	1500W	42.0-60	230 / 50	TYPE-B	91%				
3000W									
		3000							
Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.				
Model Name TS-3000-112A	Continue	Input	Output VAC / Hz 110 / 60		Effi. 88%				
	Continue power	Input VDC		socket					
TS-3000-112A	Continue power 3000W	Input VDC 10.5-15	110 / 60	socket TYPE-A	88%				
TS-3000-112A TS-3000-124A	Continue power 3000W 3000W	Input VDC 10.5-15 21.0-30	110 / 60 110 / 60	socket TYPE-A TYPE-A	88% 90%				
TS-3000-112A TS-3000-124A TS-3000-148A	Continue power 3000W 3000W 3000W	Input VDC 10.5-15 21.0-30 42.0-60	110 / 60 110 / 60 110 / 60	socket TYPE-A TYPE-A TYPE-A	88% 90% 91%				
TS-3000-112A TS-3000-124A TS-3000-148A TS-3000-212B	Continue power 3000W 3000W 3000W 3000W	Input VDC 10.5-15 21.0-30 42.0-60 10.5-15	110 / 60 110 / 60 110 / 60 230 / 50	socket TYPE-A TYPE-A TYPE-A TYPE-B	88% 90% 91% 89%				

Please refer to page 4 for AC output receptacle list.

Inverter Remote Controller

IRC series is the monitoring and control unit used for the inverter series. It can decode the RS-232 signal sent by inverter series and display through digital meters.



- · Wall-mounted and control panel assembly acceptable
- Built-in ON/OFF button · LED indicators for remote ON/OFF, abnormal and power saving mode
- · Equipped with 10FT cable, optional for 25FT or 50FT
- · Connect directly to the remote socket of inverter; no power supply needed
- · Suitable series:
- IRC1: TS-700 / 1000 / 1500 / 3000 TN-1500 / 3000 IRC2: TS-700 / 1000 / 1500 / 3000 IRC3: TN-1500 / 3000
- 3 years warranty





5



True Sine Wave with Solar Charger

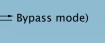
Features

- True sine wave output (THD<3%)
- 2 times high surge power for motor related application
- Advanced digital control by microprocessor
- High frequency design; high efficiency up to 92%
- Conformal coating
- Standby saving mode to conserve energy
- Built-in fan ON/OFF control function
- Output voltage / frequency adjustable
- Input protections: Bat. low alarm / Bat. low shutdown / Reverse polarity / Over voltage

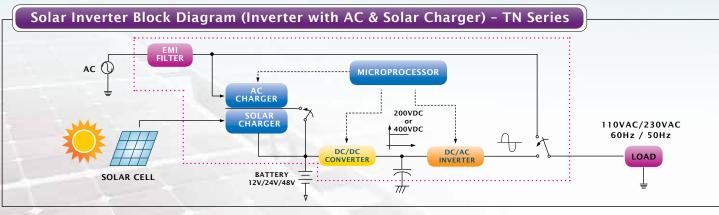
- Please refer to www.meanwell.com for detail spec.
- Solar input current up to 30A max.

1500~3000W

- Output protections: Short circuit / Overload /
- Over temperature / AC circuit breaker • Front panel indicator for load / battery /
- operation status
- Selectable UPS & energy saving mode
- AC by pass / Built-in AC and solar charger
 Fast transfer time under 10ms (Inverter mode = Bypass mode)
- Optional monitoring software and
- connection cable (MW order No.: DS-TN-1500 for TN-1500/3000)







1500W								
Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.			
TN-1500-112A	1500W	10.5-15	110 / 60	TYPE-A	87%			
TN-1500-124A	1500W	21.0-30	110 / 60	TYPE-A	89%			
TN-1500-148A	1500W	42.0-60	110 / 60	TYPE-A	89%			
TN-1500-212B	1500W	10.5-15	230 / 50	TYPE-B	88%			
TN-1500-224B	1500W	21.0-30	230 / 50	TYPE-B	90%			
TN-1500-248B	1500W	42.0-60	230 / 50	TYPE-B	91%			
= A, B (standard	model), C, D, E			I model for TN-3	8000 only)			

3000W Continue Input Output Output Model Name Effi. VAC'/ Hz VDC power socket TN-3000-112A 3000W 110 / 60 TYPE-A 88% 10 5-15 TN-3000-124 A 3000W 21.0-30 110 / 60 TYPE-A 90% TN-3000-148A 42.0-60 3000W 110 / 60 TYPE-A 91% TN-3000-212B 3000W 10.5-15 230 / 50 TYPE-B 89% TN-3000-224 B 3000W 21.0-30 230 / 50 TYPE-B 91% TN-3000-248 B 3000W 42.0-60 230 / 50 TYPE-B 92%

Please refer to page 4 for AC output receptacle list.

Setting Procedure via Front Panel for TS/TN-1500/3000 Series

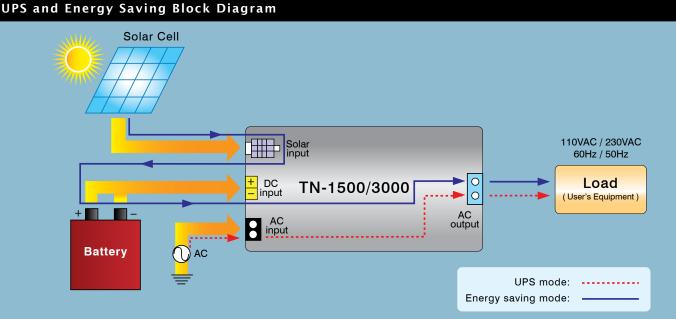
Fro					V Line of the second se	press t		d stick to ng button	
F	unction					g Proce			
			connect should b Use an i power s "Beep" s	ed. AC main be removed. nsulated stic witch. After ound. User o	can either ck to press pressing f can release	the connection the settin or 5 secon the butto	cted or disco g button and ds, the inver n and go into	nnected, l then tur ter will so o the sett	end out a ing procedure.
First Level	UPS and Energy Saving Mode Selection	step 5					ng: UPS mod		he operating
			LED S	Mode	UPS M	lode Er	nergy Savin	g Mode	
			On		0		•		● Light
			Bat Lo	w	¥		*		O Dark
			Saving	g	¥		*		🔻 Flashing
		Step 4	The LED then rel		state by p	pressing th	e setting but	ton for 1	second and
		Step 1 Step 2	seconds released Please re voltage	and the inv I and you ca	erter will s n go on to below and is the one	end out a the secon check the you need	e LED status 1 AC / 60Hz)	d. The bu "voltage /	tton can be ′ frequency". he output
			LED St	~	(200VAC)	(220VAC)		(240VAC	
	Output Voltage and Frequency Adjustment			On	•	•	•	•	_
Second Level			50Hz	Bat Low Saving	 0	0 •	•	•	● Light
Second Level				On	*	*	¥	*	O Dark
			60Hz	Bat Low	0	0	•	•	
		Chan 2		Saving	0	•	O e setting but	•	
			100 (200V) 5	ease.	20V) 60Hz	115V (230V) 50H 115V (230V) 60H	z → 12 (240V	20V 7) 50Hz	100V (200V) 60Hz
			for 5 se be relea Please r	conds and th sed and you	ne inverter can go in below and	will send to the setti d check the	equency, pre out a "Beep" ng section fo LED status.	sound. T or "saving	he button can
			LED S	Mode		ON	OF	F	
Third Level	Saving Mode Selection		On			*	¥		● Light
			Bat Lo			¥	*		O Dark
			Saving	-		•	0	1	➡ Flashing
			then rel Press th "Beep" s	ease. e setting bu ound, the bu	tton for 5 utton can b	seconds ar	e setting but nd the inverte I and all the ne setting an	er will sei setting ar	nd out a
Note: 1.Descriptions v 2.For setting pr	vhich are highlighted represent ocedure of other product series	function s, please	s exclusiv refer to <u>h</u>	ve to the TN- http://www.me	1500/3000 anwell.com	series. I/product/in	verter/inverte	<u>r01.html</u>	11

166 .

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Comparison of UPS and Energy Saving Mode

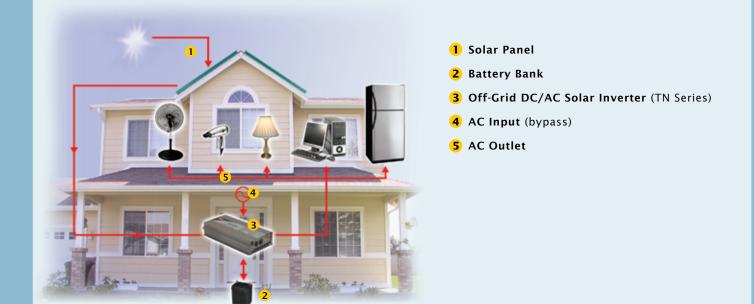


Operation Mode	Description & Special Feature	Possible Application
UPS mode	Utility has the highest priority, the TN unit will operate as an UPS system. Utility bypass load (user's equipment) back-up battery bank Inverter load (user's equipment) • Area with unstable utility • Better performance as compared to conventional UPS (capable of withstanding heavy load)	 Office: computer system, security system, printer, scanner, faxetc. Home: personal computer, refrigerator, lightingetc. Telecom sub-station
Energy Saving mode	 Solar energy has the highest priority. Utility bill can be reduced since the TN unit acquires energy from the solar panel as higher priority. Solar panel → battery bank → inverter → load (user's equipment) With additional solar panel. It can be used as individual sub power station (Independent power station) Area without utility or unstable utility Cut cost on utility bill 	 High altitude location or green building: weather station, lighting, hair dryeretc. Yacht: TV, DVD, radio, air conditioner, coffee makeretc. Vehicle: mobile phone charger, notebook, electronic potetc.

Notice

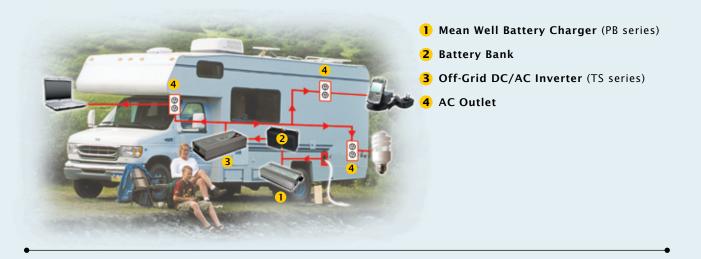
- Modified sine wave inverter is a stepped waveform that is designed to have characteristics similar to the sine wave shape of utility power. It is suitable for most household applications, such as notebook, PC, MP3 player, cell phone charger, and digital camera...etc. but may present certain compromises with some loads such as ham radio, microwave oven(with clock), laser printer, motor speed controller, transformer-less charger, and load with high surge demand (capacitance, fluorescent lamp...etc.).
- True sine wave inverter is suitable for most AC loads, including all electronic equipment of household, motor related application such as electronic drill, linear and switching power supply used in electronic equipment.





- 1 Utility Input (Shore)
- 2 Mean Well Battery Charger (PB series)
- **3** Battery Bank
- Off-Grid AC/DC Power Inverter (TS series)
- 5 AC Outlet





Applications:

TV, DVD, notebook, personal computer, lighting, refrigerator, fan, radio, hair dryer, electronic pot, coffee maker, and cell phone charger...etc.