

Power Inverter & Battery Charger

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.

Backed by 30 years' experience, we have over 4,500 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 150 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!

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120~230W

Portable Battery Charger

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

Features

- Universal AC input / Full range
- AC input range selectable by switch (PB-120)
- No load power consumption<0.5W (GC-120)
- No load power consumption< 1W (GC 160/220)
- 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)
- · 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 temperature / 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

























GC160 175x 72x 35 mm



▲ GC220 210x 85x 46 mm



▲ PA/PB-120 180x 96x 49 mm



▲ PB-230 190x 96x 49 mm

Model Name	GC120	GC160	GC220	P□-120 □=A: pulse charge B: 2 section voltage 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 stage		
Over voltage protection	105%~135%, shut off O/P voltage, re-power on to recover			108%~127%, shut off output voltage, re-power on to recover (PB-230: 102%~125%)		
Withstand voltage	I/P-O/P: 3kVAC	C, 1 minute				
Working temperature	-30~+70°C		-30~60°C	-10~+45°C	-20~+50°C	
Safety standards	UL1012 (AD1-7	Гуре only), EN60	950-1	UL60950-1, TUV EN60950-1, EN60335-2-29 (except for 55.2V)	UL1012, TUV EN60950-1	
EMC standards	standards EN55022 class B, EN61000-4-2,3,4, EN61000-3-2,3, FCC part15 class B			EN55022 class B, EN61000-4-2,3, EN61000-3-2,3	4,5,6,8,11,	
Standard DC output plug	Power DIN 4P w	vith lock type (R7	'B)	MIC 3P, male type	MIC 4P, male type	

	120W	
Model Name	Output	Effi.
GC120A12-□	13.6V, 7.50A	86.5%
GC120A24-□	27.2V, 4.42A	90.0%
GC120A48-□	54.4V, 2.21A	91.0%
□ = R7B, AD1		

160W						
Model Name	Output	Effi.				
GC160A12-□	13.6V, 10.0A	89.0%				
GC160A24-□	27.2V, 5.89A	92.5%				
GC160A48-□	54.4V, 2.95A	94.0%				
□= R7B, AD1						

	218W	
Model Name	Output	Effi.
GC220A12-□	13.6V, 13.5A	89.0%
GC220A24-□	27.2V, 8A	92.5%
GC220A48-□	54.4V, 4A	93.0%
□= R7B, AD1		

120W					
Model Name	Wattage	Output	Effi.		
P□-120-13	99W	13.8V, 0~7.2A	73.0%		
P□-120-27	119W	27.6V, 0~4.3A	79.0%		
P□-120-54	121W	55.2V, 0~2.2A	79.0%		
		7			

230W				
Model Name	Wattage	Output	Effi.	
PB-230-12□	230W	14.4V, 0~16A	81.5%	
PB-230-24 □	230W	28.8V, 0~8A	85.5%	
PB-230-48 □	230W	57.6V, 0~4A	86.0%	
\square = Blank, AD1;	Blank: Power D	IN 4P, AD1: Andersor	Connector	

Model Name	Output Connector	Safety	
GC120Axx-R7B GC160Axx-R7B GC220Axx-R7B	-	EGS CB	
PB-230-xx	Power DIN 4P	FC (GC series only)	
GC120Axx-AD1 GC160Axx-AD1		(h) AG CB	
GC220Axx-AD1 PB-230-xxAD1	Anderson Connector	F© C € (GC series only)	

- UL1012 listed only for "Anderson Connector"
- xx = 12,24,48; R7B: power DIN 4P, AD1: Anderson Connector



300~1000W

Stationary Battery Charger

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

Features

- Universal AC input / Full range (PB-600/1000)
- AC input range selectable by switch (PB-300/360)
- Built-in passive PFC function (PB-300P/360P)
- Built-in active PFC function (PB-600/1000)
- 3 poles AC inlet IEC320-C14
- Cooling by built-in DC fan (except for PB-300)
- Built-in ON/OFF power switch

- Built-in remote ON/OFF control
- 2/3/8 stage smart charger for PB-600/1000
- · Protections:

Short circuit / Over voltage / Over temperature / Reverse polarity

- · LED indicator for charging status
- · 3 years warranty















▲ PB-600 230x 158x 67 mm

▲ PB-1000 300x 184x 70 mm

Model Name		PB-300	PB-360	PB-600	PB-1000
AC input voltage ra	nge	90~132VAC / 180~264VAC s	electable by switch	90~264VAC	
Charge style		3 stage		2/3/8 stage (selectable)	
Over voltage	Range	108%~125%		112%~125%	110%~125%
protection	Type	shut off output voltage, re-	-power on to recover		
Withstand voltage I/P-O/P: 3kVAC, 1 minute					
Working temperatu	re	-10~+50°C	-20~+60°C		
PB-300/360: UL60950-1, CB IEC60335-2-29 (except for safety standards PB-600: UL1012, TUV EN60950-1 (48V only), TUV EN60950-1 (48V only), TUV EN60950-1)950–1 (48V only), TUV EN6		
EMC standards		EN55022 class B, EN61000	-4-2,3,4,5,6,8,11, EN61000	-3-2,3 (except for PB-300N	/360N)
DC output connector Terminal block 2P				Terminal block 3P	

	30	0W	
Model Name	Wattage	Output	Effi.
PB-30012	300W	14.4V, 0~20.85A	85%
PB-300 -24	302W	28.8V, 0~10.5A	86%
PB-300 -48	305W	57.6V, 0~5.3A	88%
☐ =P, N ; P: with	PFC, N: non P	FC	

600W					
Model Name	Wattage	Output	Effi.		
PB-600-12	576W	14.4V, 0~40.0A	86%		
PB-600-24	605W	28.8V, 0~21.0A	87%		
PB-600-48	605W	57.6V, 0~10.5A	89%		

	36	OW		
Model Name	Wattage	Output	Effi.	
PB-36012	350W	14.4V, 0~24.3A	85%	
PB-36024	360W	28.8V, 0~12.5A	86%	
PB-360 <u></u> -48	360W	57.6V, 0~6.25A	87%	
☐ =P, N ; P: with	PFC, N: non F	PFC		

1000W					
Model Name	Wattage	Output	Effi.		
PB-1000-12	864W	14.4V, 0~60.0A	85%		
PB-1000-24	999W	28.8V, 0~34.7A	88%		
PB-1000-48	1002W	57.6V, 0~17.4A	89%		

500W Stand-alone Solar Inverter

Features

- · DC/AC modified sine wave output
- · Built-in 500W MPPT solar charger, MPPT efficiency: 98% (Typ.)
- · High surge power up to 1000W
- High frequency design

Output power

- High efficiency up to 88%
- · 2 years warranty
- · Protections: Battery low alarm / Battery low shutdown / Overload / Over temperature / Output short /

500W (rated power); 1000W (surge power)

Input reverse polarity Modified models available:

FC CE





/	
15/120VAC or 200/220/240VAC	. It
ica models available.	- 1-

100/1

DC input rated voltage 12VDC, 24VDC or 48VDC AC onput voltage range/Frequency 110VAC/60Hz or 230VAC/50Hz AC output waveform Modified sine wave AC output regulation ±10% No load disspation (typ.) Working temperature -20~+60°C (refer to output derating curve) Input voltage range 20~40V, 35~80V or 70~160V

Solar Panel	Max. short circuit current	15A (7.5A for 48VDC input)		
	Rated charger power	500W (350W for 12VDC input)		
Safety standards		Compliance to EN60950-1(LVD)		
EMC standard		Compliance to FCC part 15 class A,		
LIVIC Standard		EN55022 class A, EN61000-4-2,3,8		

	- 203X	130% 07 1111			
Model Name	Continue Power	Input VDC	Output VAC/Hz	Output socket	Effi.
ISI-500-112	350W	10.5~15	110/60	TYPE-A	85%
ISI-500-124	500W	21~30	110/60	TYPE-A	87%
ISI-500-148	500W	42~60	110/60	TYPE-A	87%
ISI-500-212	350W	10.5~15	230/50	TYPE-B	86%
ISI-500-224	500W	21~30	230/50	TYPE-B	88%
ISI-500-248	500W	42~60	230/50	TYPE-B	88%
□= A, B (stand	dard model)	, C, D, E,	U (optiona	l model)	
▶ Please refer	to Page 4 f	or AC outp	ut recepta	cle list	



100~2500W Modified Sine Wave

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

Feature<u>s</u>

- High frequency design
- Input protections:

Reverse polarity / Over and under voltage / Battery low alarm and shutdown

- Output protections: Short circuit / Overload / Over temp.
- With power ON/OFF switch and LED indicator
- Built-in remote ON/OFF control for 1000~2500W (optional)
- Built-in USB interface and without fan for 100W
- · Input and output fully isolation
- Low power consumption (standby)
- LVD meet EN60950-1 and e13 mark
- EMC meet EN61000-4-2,3, EN55022
- 1 year warranty



AC Output Receptacle (optional) for A301/A302 Series							
			-4: P-				
TYPE-1	PE-1 TYPE-2 TYPE-3 TYPE-4 TYPE-5 TYPE-6						
JAPAN USA EUROPE UNIVERSAL AUSTRALIA U.K.							
▶ Please consult MeanWell for other kinds of optional socket. TYPE-2,3 (standard model); TYPE-1,4,5,6 (optional model)							



		200011 400X 210X 100 IIIII				
Model Name	A301	A302				
DC input rated voltage	12.5VDC	25.0VDC				
AC output voltage / Frequency	110VAC(rms) / 60Hz or 230VAC(rms) / 50Hz	Z				
Max. output power	100W, 150W, 300W, 600W, 1000W, 1500W,	100W, 150W, 300W, 600W, 1000W, 1500W, 2500W				
USB output power	5VDC / 500mA (100W only)					
AC output regulation	±10% of rated output voltage					
Bat. low alarm	10±0.5VDC	20.5±1.0VDC				
Bat. low shut down	9.5±0.5VDC	19.5±1.0VDC				
I/P over voltage protection	15~17VDC	30~32VDC				
Working temperature	0~+40°C (0~+25°C for 2500W)					
Safety standards	Compliance to EN60950-1(LVD)					
EMC standards	Compliance to EN55022 class B, e-mark, EN	61000-4-2,3				

		100W	/		
Model Name	Continue	Input VDC	Output VAC / Hz	Output socket	Effi.
A301-100-F3	100W	10-15	230 / 50	TYPE-3	90%
A302-100-F3	100W	21-30	230 / 50	TYPE-3	90%
		150W	/		
Model Name	Continue	Input VDC	Output VAC / Hz	Output socket	Effi.
A301-150-B2	150W	10-15	110 / 60	TYPE-2	78%
A301-150-F3	150W	10-15	230 / 50	TYPE-3	78%
A302-150-B2 A302-150-F3	150W 150W	21-30 21-30	110 / 60 230 / 50	TYPE-2 TYPE-3	82% 82%
A302-130-13	13077			TTFL-3	02 /0
		300W			
Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
A301-300-B2	300W	10-15	110 / 60	TYPE-2	82%
A301-300-F3	300W	10-15	230 / 50	TYPE-3	82%
A302-300-B2 A302-300-F3	300W 300W	21-30 21-30	110 / 60 230 / 50	TYPE-2 TYPE-3	85% 85%
71002 000 1 0	00011	600W		11120	0070
Model Name	Continue	Input VDC	Output VAC / Hz	Output socket	Effi.
A301-600-B2	600W	10-15	110 / 60	TYPE-2	82%
A301-600-F3	600W	10-15	230 / 50	TYPE-3	82%
A302-600-B2 A302-600-F3	600W 600W	21-30 21-30	110 / 60	TYPE-2 TYPE-3	85%
A3UZ-0UU-F3	00000	21-30	230 / 50	1175-3	85%

Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
A301-1K0-B2	1000W	10-15	110 / 60	TYPE-2	82%
A301-1K0-F3	1000W	10-15	230 / 50	TYPE-3	82%
A302-1K0-B2	1000W	21-30	110 / 60	TYPE-2	85%
A302-1K0-F3	1000W	21-30	230 / 50	TYPE-3	85%
		1500	W		
Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
A301-1K7-B2	1500W	10-15	110 / 60	TYPE-2	82%
A301-1K7-F3	1500W	10-15	230 / 50	TYPE-3	82%
A302-1K7-B2	1500W	21-30	110 / 60	TYPE-2	85%
A302-1K7-F3	1500W	21-30	230 / 50	TYPE-3	85%
		2500	W		
Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
A301-2K5-B4	2500W	10-15	110 / 60	TYPE-2	82%
A301-2K5-F3	2500W	10-15	230 / 50	TYPE-3	82%
A302-2K5-B4	2500W	21-30	110 / 60	TYPE-2	85%
A302-2K5-F3	2500W	21-30	230 / 50	TYPE-3	85%

1000W







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
- · Output voltage / frequency adjustable
- High efficiency up to 91%
- Conformal coating for TS-700
- Standby saving mode to conserve energy (TS-700)
- Built-in fan ON/OFF control function (TS-400/700)
- Fanless design, cooling by free air convection (TS-200)
- Front panel indicator for load / battery / operation status

- · 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



205x 158x 59 mm



TS-400

205x 158x 67 mm



Rated output pow	er	200W	400W	700W	
		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	g (30 cycles)	400W	800W	1400W	
DC input rated vo	ltage	12VDC, 24VDC or 48VDC			
AC output voltage	1	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	n (Typ.)	≤15W		≤6W@standby saving mode	
Working temperat	ure	-10~+60°C		0~+60°C	
Safety standards	110V	Design refer to UL458	Design refer to UL458		
230V Compliance to EN60950-1(LVD)					
EMC standards	110V	Compliance to FCC part 15 cla	ss A		
LIVIC Stallualus	230V	Compliance to EN55022 class A, E-Mark, EN61000-4-2,3,8			

		200W	'		
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-400-248 B	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-700-224B	700W	21.0-30	230 / 50	TYPE-B	90%
TS-700-248B	700W	42.0-60	230 / 50	TYPE-B	91%

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

AC Output Receptacle List

TYPE-A	TYPE-B	TYPE-C	TYPE-D
	000		
USA	Europe	Australia	U.K.
TYPE-E	TYPE-F	TYPE-G	TYPE-U
		(Terminal only)	
Japan	GFCI		Universal

[▶] Please consult MEAN WELL for other kinds of optional output socket.



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%

Rated output power

Maximum output power

DC input rated voltage AC output voltage

Output frequency

AC output waveform

AC output regulation (Typ.)

No load dissipation (Typ.)

Working temperature

Safety standards

EMC standards

Output surge rating (30 cycles)

- · 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

- · 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. c UL us FC E13 (F

· 3 years warranty







TS-1500

TS-3000



Compliance to EN60950-1 (LVD)

Compliance to FCC part 15 class A





Compliance to EN55022 class A (class B for TS-1500), E-Mark, EN61000-4-2,3,8





1000W	1500W	3000W		
1150W for 3 minutes;	1725W for 3 minutes;	3450W for 3 minutes;		
1500W for 10 sec.	2250W for 10 sec.	4500W for 10 sec.		
2000W	3000W	6000W		
12VDC, 24VDC or 48VDC				
100 / 110 / 115 / 120VAC or	200 / 220 / 230 / 240VAC adjustal	ole via setting button on front panel		
50Hz/60Hz adjustable via se	etting button on front panel			
True sine wave, THD<3.0%				
$\pm 3\%$ of rated output voltage	2			
≤ 6W @ standby saving mode	≤18W @ standby saving mode	≤10W @ standby saving mode		
0~+60°C				
UL458 approved (except for 4	18V and only for GFCI receptacle)	UL458 approved for TYPE-G		

		1000W			
Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
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			

110V

230V

110V

230V

Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
TS-1500-112 A	1500W	10.5-15	110 / 60	TYPE-A	87%
TS-1500-124 A	1500W	21.0-30	110 / 60	TYPE-A	89%
TS-1500-148A	1500W	42.0-60	110 / 60	TYPE-A	89%
TS-1500-212 B	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			
Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
TS-3000-112A	3000W	10.5-15	110 / 60	TYPE-A	88%
TS-3000-124A	3000W	21.0-30	110 / 60	TYPE-A	90%
TS-3000-148A	3000W	42.0-60	110 / 60	TYPE-A	91%
TS-3000-212B	3000W	10.5-15	230 / 50	TYPE-B	89%
TS-3000-224B	3000W	21.0-30	230 / 50	TYPE-B	91%
TS-3000-248B	3000W	42.0-60	230 / 50	TYPE-B	92%

⁼ A, B (standard model), C, D, E, F (optional model), G (optional model for TS-3000 only) ► 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.



75x 55x 21mm FCCE

Features:

- · 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

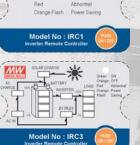
· Suitable series:

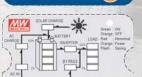
IRC1: TS-700 / 1000 / 1500 / 3000 TN-1500 / 3000

IRC2: TS-700 / 1000 / 1500 / 3000 IRC3: TN-1500 / 3000

3 years warranty







1500~3000W



True Sine Wave with Solar Charger

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 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
- · Solar input current up to 30A max.
- 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)



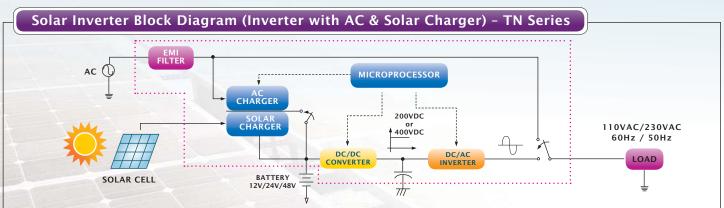


TN-1500

420x 220x 88 mm



Rated output pow	er	1500W	3000W	
Maximum output p	oower	1725W for 3 minutes; 2250W for 10 seconds	3450W for 3 minutes ; 4500W for 10 seconds	
Output surge ratio	1g (30 cycles)	3000W	6000W	
DC input rated vo	ltage	12VDC, 24VDC or 48VDC		
AC output voltage		100 / 110 / 115 / 120VAC or 200 / 220 / 230 / 240VA	C adjustable via front panel or monitoring software	
AC output regulat	ion (Typ.)	±3% of rated output voltage		
No load dissipation	n (Typ.)	≤18W @ standby saving mode	≤10W @ standby saving mode	
Output frequency	itput frequency 50Hz/60Hz adjustable via front panel or monitoring software			
AC output wavefo	rm	True sine wave, THD<3.0%		
Transfer time (Typ.)	10ms; inverter mode === Bypass 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	
Safety Standards	230V	Compliance to EN60950-1 (LVD)		
EMC standards	110V	Compliance to FCC part 15 class A		
EIVIC Standards	230V	Compliance to EN55022 class A (class B for TN-1500), E-Mark, EN61000-4-2,3,4,5,6,8,11		



V	1500W	1!	
Output Output VAC / Hz socket	Input Output VDC VAC / H		Model Name
110 / 60 TYPE-A	10.5-15 110 / 60	1500W 10	TN-1500-112A
110 / 60 TYPE-A	21.0-30 110 / 60	1500W 21	TN-1500-124A
110 / 60 TYPE-A	12.0-60 110 / 60	1500W 42	TN-1500-148A
230 / 50 TYPE-B	10.5-15 230 / 50	1500W 10	TN-1500-212B
230 / 50 TYPE-B	21.0-30 230 / 50	1500W 21	TN-1500-224 B
230 / 50 TYPE-B	12.0-60 230 / 50	1500W 42	TN-1500-248B
110 / 60 TYPE-A 110 / 60 TYPE-A 110 / 60 TYPE-A 230 / 50 TYPE-B 230 / 50 TYPE-B	10.5-15 110 / 60 21.0-30 110 / 60 42.0-60 110 / 60 10.5-15 230 / 50 21.0-30 230 / 50	1500W 10 1500W 21 1500W 42 1500W 10 1500W 21	TN-1500-112 A TN-1500-124 A TN-1500-148 A TN-1500-212 B TN-1500-224 B

Г	= A, B (standard model)	CDFF	(optional)	model) G	(ontional	model for	TN-3000 only	v)
	71, D (otalidala model)	0, 0, -,	(optional i	modelly, C	(optional	model for	114 0000 0111)	"

[►] Please refer to page 4 for AC output receptacle list.

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

Step 1

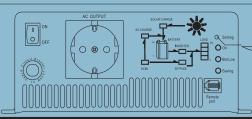
The inverter should

Setting Procedure via Front Panel

for TS/TN-1500/3000 Series

Front Panel

Function



Use an insulated stick to press this setting button

	\supset
Setting Proced	ure
	setting, input batteries should be

UPS and Energy Saving Mode Selection First Level

Output Voltage and

Frequency Adjustment

Saving Mode Selection

Second Level

Third Level

connected. AC main can either be connected or disconnected, and the load should be removed. Step 2 Use an insulated stick to press the setting button and then turn on the

power switch. After pressing for 5 seconds, the inverter will send out a "Beep" sound. User can release the button and go into the setting procedure.

Step 3 Please refer to table below and check the LED status to see if the operating mode is the one you need. (Factory setting: UPS mode)

Mode LED Status	UPS Mode	Energy Saving Mode	
On	0	•	
Bat Low	*	*	(
Saving	*	*	ן ן

Light O Dark Flashing

- Step 4 The LED will change state by pressing the setting button for 1 second and then release.
- Step 1 After selecting the operating mode, pressing the setting button for 3~5 seconds and the inverter will send out a "Beep" sound. The button can be released and you can go on to the second section of "voltage / frequency".
- Step 2 Please refer to table below and check the LED status to see if the output voltage / frequency is the one you need (Factory setting: 230VAC/50Hz or 110VAC / 60Hz)

(Tactory Setting: 250 VAC/ 50112 of 110 VAC / 00112)						
LED Sta	Mode itus	100VAC (200VAC)		115VAC (230VAC)		
	On	•	•	•	•	
50Hz	Bat Low	0	0	•	•	
	Saving	0	•	0	•	
	On	*	*	*	*	
60Hz	Bat Low	0	0	•	•	
	Saving	0	•	0	•	

Flashing

ng

Light

O Dark

Step 3 The LED will change state by pressing the setting button for 1 second and then release.



After selecting the output voltage and frequency, press the setting button for 5 seconds and the inverter will send out a "Beep" sound. The button can be released and you can go into the setting section for "saving mode".

Step 2 Please refer to table below and check the LED status. (Factory setting: saving mode OFF)

Mode LED Status	ON	OFF	
On	*	*	Light
Bat Low	*	*	O Dark
Saving	•	0	≯ Flashii
		/ 00	113

- Step 3 The LED will change state by pressing the setting button for 1 second and then release.
- Press the setting button for 5 seconds and the inverter will send out a "Beep" sound, the button can be released and all the setting are finished. The inverter will automatically store all the setting and then start to operate.

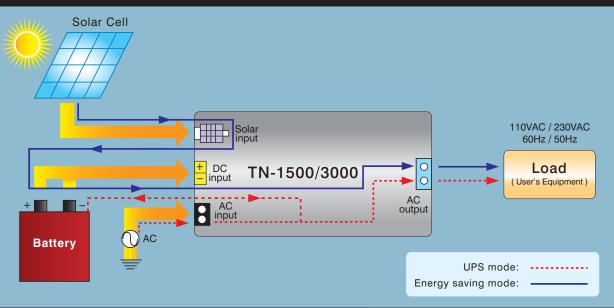
Note: 1.Descriptions which are highlighted represent functions exclusive to the TN-1500/3000 series.

2. For setting procedure of other product series, please refer to http://www.meanwell.com/product/inverter/inverter01.html



Comparison of UPS and Energy Saving Mode

UPS and Energy Saving Block Diagram



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 loverter 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.

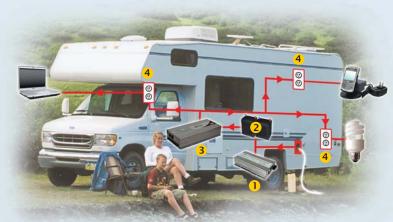
Applications



- 1 Solar Panel
- 2 Battery Bank
- 3 Mean Well Solar Inverter (TN Series)
- 4 AC Input (bypass)
- 5 Utility Input

- 1 Utility Input (Shore)
- 2 Mean Well Battery Charger (PB series)
- 3 Battery Bank
- 4 Mean Well Power Inverter (TS series)
- 5 AC Outlet





- 1 Mean Well Battery Charger (PB series)
- 2 Battery Bank
- 3 Mean Well Power Inverter (TS series)
- 4 AC Outlet

Applications:

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