

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 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!

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120~326W 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 (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



















GC220 210x 85x 46 mm



GC330 220x 95x 46 mm

Model Name

GC220A△-AD1

PB-230-△AD1

GC330AO-C4P

PB-230-12 □

PA/PB-120

180x 96x 49 mm

PB-230 190x 96x 49 mm

Model Name	GC120	GC160	GC220	GC330□	P□-120 =A: pulse charge B: 2 section voltage charge	PB-230
AC input voltage range	85~264	IVAC	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/F	: 3kVAC	, 1 minute			
Working temperature	-30~+7	70°C	-30~60°C		-10~+45°C	-20~+50°C
Safety standards		GC120~220: UL1012 (AD1-Type only), EN60950-1 GC330: UL60950-1, EN60950-1			UL60950-1, TUV EN60950-1, EN60335-2-29 (except for 55.2V)	UL1012 (AD1-Type only), TUV EN60950-1
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, EN61000-3-2,3	4,5,6,8,11,
Standard DC output plug (Male, power supply side)			th lock type, equivalent	4P/AMP 1-480702-0 equivalent	MIC 3P	MIC 4P

	120	W		
Model Name	Wattage	Output	Effi.	
GC120A12-□	102W	13.6V, 7.50A	86.5%	
GC120A24-□	120W	27.2V, 4.42A	90.0%	
GC120A48-□	120W	54.4V, 2.21A	91.0%	
□ = R7B AD1				

160W				
Model Name GC160A12-□ GC160A24-□ GC160A48-□ □ = R7B, AD1	Wattage 136W 160W 160W	Output 13.6V, 10.0A 27.2V, 5.89A 54.4V, 2.95A	Effi. 89.0% 92.5% 94.0%	

218W				
Model Name GC220A12-□ GC220A24-□ GC220A48-□	Wattage 184W 218W	Output 13.6V, 13.5A 27.2V, 8A	Effi. 89.0% 92.5%	
GC220A48-□ □ = R7B, AD1	218W	54.4V, 4A	93.0%	

	326	W	
Model Name	Wattage	Output	Effi.
GC330A36-C4P	326W	40.8V, 8A	93.5%
GC330A48-C4P	326W	54.4V, 6A	93.5%

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%		

Output

14.4V, 0~16A

Effi.

81.5%

Wattage

230W

PB-230-24 ☐ PB-230-48 ☐ ☐ = Blank, AD	230W 57.	.8V, 0~8A 85.5% 6V, 0~4A 86.0% .AD1: Anderson Connector
Model Name	Output Connector	Safety
GC120A△-R7B GC160A△-R7B GC220A△-R7B PB-230-△	Power DIN 4P	E CB FC CE
GC120A△-AD1 GC160A△-AD1		®≜ & CBF©(€

- AMP Connector • UL1012 listed only for "Anderson Connector"
- △ = 12,24,48; R7B: Power DIN 4P, AD1: Anderson Connector

Anderson Connector

• \bigcirc = 36,48; C4P: AMP 1-480702-0 equivalent



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

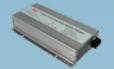
- Built-in remote ON/OFF control
- 2/3/8 stage smart charger for PB-600/1000
- Protections

Short circuit / Over voltage / Over temperature / Reverse polarity

- · LED indicator for charging status
- 3 years warranty













▲ PB-300 253x 135x 48.5 mm

▲ PB-360 253x 135x 48.5 mm

▲ 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 r	ange	90~132VAC / 180~20	64VAC selectable by switch	90~264VAC	
Charge style		3 stage		2/3/8 stage (selectal	ble)
Over voltage	Range	108%~125%		112%~125%	110%~125%
protection	Type	shut off output volt	age, re-power on to recove	r	
Withstand voltage I/P-O/P: 3kVAC, 1 minute					
Working temperate	ıre	-10~+50°C	-20~+60°C		
Safety standards		· · · · · · · · · · · · · · · · · · ·	, , , , , , , , , , , , , , , , , , , ,	cept for 48V) UV EN60335-2-29 (except fo	or 48V)
EMC standards		EN55022 class B, EN	N61000-4-2,3,4,5,6,8,11, E	N61000-3-2,3 (except for PB	-300N/360N)
DC output connect	or	Terminal block 2P			Terminal block 3P

	30	UW	
Model Name	Wattage	Output	Effi.
PB-300□-12	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-360□-12	350W	14.4V, 0~24.3A	85%	
PB-360 <u></u> -24	360W	28.8V, 0~12.5A	86%	
PB-360□-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 DC/AC Off-Grid Solar Inverter

AAA

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

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





205x 158x 67 mm

FCC/CE pending

EMC standards		FCC part 15 class B, EN55022 class B, EN61000-4-2,3,8		
Safety standards		EN60950-1(LVD)		
ranei	Rated charger power	500W		
Panel	Max. short circuit current	11A (4.5A for 48VDC input)		
Solar	Input voltage range	25~50V, 35~90V or 70~160V		
Workir	ig temperature	-20~+60°C (refer to output derating curve)		
No loa	d disspation (Typ.)	≤15W		
AC out	put regulation	±3% of rated output voltage		
AC output waveform		True sine wave, THD<3.0%		
Outpu	t frequency	50Hz/60Hz adjustable via setting button on front panel		
AC output voltage		100/110/115/120VAC; 200/220/230/240VAC adjustable via setting button on front panel		
DC inp	ut rated voltage	12VDC, 24VDC or 48VDC		
Outpu	t power	500W (rated power); 1000W (surge power)		

						J
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 (stan	dard model), C, D, E,	F, U (option	onal model)	

▶ Please refer to Page 4 for AC output receptacle list



100~2500W Modified Sine Wave

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

Features

- · High frequency design
- Input protections:

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

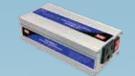
- Output protections: Short circuit / Overload / Over temp.
- With power ON/OFF switch and LED indicator
- Built-in remote ON/OFF control for 1000~2500W (optional)
- Built-in USB interface and without fan for 100W
- · Input and output fully isolation
- Low power consumption (standby)
- · LVD meet EN60950-1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



AC Output Receptacle (optional) for A301/A302 Series								
TYPE-1	TYPE-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.								

Please consult MeanWell for other kinds of optional socket.
 TYPE-2,3 (standard model); TYPE-1,4,5,6 (optional model)







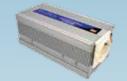


▲ 150W / 110V 122x 73x 45 mm

▲ 600W 210x 173x 65 mm

▲ 1500W 455x 210x 85 mm









▲ 150W / 230V 165x 94x 69 mm

A302-600-F3

600W

▲ 300W 165x 88x 74 mm

▲ 1000W 320x 210x 85 mm

▲ 2500W 430x 210x 159 mm

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,	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	1		
Model Name	Continue	Input VDC	Output VAC / Hz	Output socket	Effi.
A301-100-F3 A302-100-F3	100W 100W	10-15 21-30	230 / 50 230 / 50	TYPE-3 TYPE-3	90% 90%
A302-100-1 3	10000	150W		TTPL-3	90 /0
Model Name	Continue	Input VDC	Output VAC / Hz	Output socket	Effi.
A301-150-B2 A301-150-F3	150W 150W	10-15 10-15	110 / 60 230 / 50	TYPE-2 TYPE-3	78% 78%
A302-150-B2 A302-150-F3	150W 150W	21-30 21-30	110 / 60 230 / 50	TYPE-2 TYPE-3	82% 82%
		300W			
Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
A301-300-B2 A301-300-F3	300W 300W	10-15 10-15	110 / 60 230 / 50	TYPE-2 TYPE-3	82% 82%
A302-300-B2 A302-300-F3	300W 300W	21-30 21-30	110 / 60 230 / 50	TYPE-2 TYPE-3	85% 85%
A302-300-1 3	30011	600W		111 E-0	0070
Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
A301-600-B2 A301-600-F3	600W 600W	10-15 10-15	110 / 60 230 / 50	TYPE-2 TYPE-3	82% 82%
A302-600-B2	600W	21-30	110 / 60	TYPE-2	85%

55	B, e-mark, E	N61000-4	-2.3					
	_,, _							
	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%		
	1500W							
	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%		
	A 200 41/7 F2	4500M	04.00	020 / 50	TVDE 2	0.50/		

A302-1K7-F3	150000	21-30	230 / 50	TYPE-3	85%			
2500W								
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%			

TYPE-3

230 / 50







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





TS-400

205x 158x 67 mm



Rated output power		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 ratir	ig (30 cycles)	400W	800W	1400W	
DC input rated vo	ltage	12VDC, 24VDC or 48VDC			
AC output voltage	•	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.)	±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			
230\		Compliance to EN60950-1(LVD	0)		
EMC standards	110V	Compliance to FCC part 15 cla	ss A		
EMC Standards	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-200-248B	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-400-224B	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-700-224B	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%
- · 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

- 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

· 3 years warranty





TS-1000

TS-1500

TS-3000









			I				
Rated output power		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 vo	ltage	12VDC, 24VDC or 48VDC					
AC output voltage		100 / 110 / 115 / 120VAC or	100 / 110 / 115 / 120VAC or 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.)	±3% of rated output voltage					
No load dissipatio	n (Typ.)	≤ 6W @ standby saving mode ≤18W @ standby saving mode ≤10W @ standby saving r					
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 Standards	230V	Compliance to EN60950-1 (LVD)					
EMC standards	110V	Compliance to FCC part 15	class A				
ENIC Standards	230V	Compliance to EN55022 class A (class B for TS-1500), E-Mark, EN61000-4-2,3,8					

			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%
l	TS-1000-212B	1000W	10.5-15	230 / 50	TYPE-B	90%
l	TS-1000-224B	1000W	21.0-30	230 / 50	TYPE-B	91%
l	TS-1000-248B	1000W	42.0-60	230 / 50	TYPE-B	92%
			1500W			
	Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.

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-1500-124A	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			

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)

► 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

Features:

· Wall-mounted and control panel assembly acceptable

FCCE

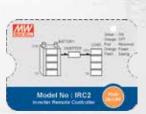
- · Built-in ON/OFF button
- · LED indicators for remote ON/OFF, abnormal and power saving mode
- · Equipped with 10FT cable, optional for 25FT or 50FT
- Connect directly to the remote socket of inverter; no power supply needed
- · Suitable series:

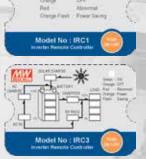
IRC1: TS-700 / 1000 / 1500 / 3000 TN-1500 / 3000

IRC2: TS-700 / 1000 / 1500 / 3000

IRC3: TN-1500 / 3000

3 years warranty





▶ Please refer to page 4 for AC output receptacle list.

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)



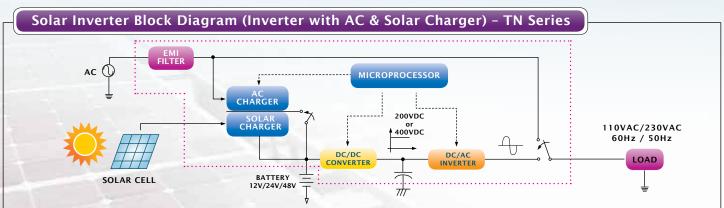


TN-1500

420x 220x 88 mm



Rated output pow	er	1500W	3000W			
Maximum output	power	1725W for 3 minutes; 2250W for 10 seconds	3450W for 3 minutes ; 4500W for 10 seconds			
Output surge ratio	ng (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.)	\pm 3% of rated output voltage				
No load dissipation	n (Typ.)	≤18W @ standby saving mode	≤10W @ standby saving mode			
Output 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				
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				
EMIC Standards	230V	Compliance to EN55022 class A (class B for TN-1500), E-Mark, EN61000-4-2,3,4,5,6,8,11				



		1500W	1		
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-1500-224 B	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,F	(optional model),	G (optional	model for TN-3000 only)
Diagon refer to page	1 for	10	autnut recente	ala liat	

[►] 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-3000-224B	3000W	21.0-30	230 / 50	TYPE-B	91%
TN-3000-248 B	3000W	42.0-60	230 / 50	TYPE-B	92%



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

Front Panel			OFF OFF	AC OUTPUT	SOLAR CHANGE AC CHARGE AC CHARGE AC CHARGE AC CHARGE BATTER BY BY	Y (000 Sal	press t		d stick to ng button
F	unction				Settin	g Proce	dure		
First Level	UPS and Energy Saving		connecte should b Use an in power sy "Beep" so Please re	ed. AC main be removed. nsulated sti witch. After ound. User efer to table	can either ck to press pressing for can release below and	the setting the setting or 5 second the button of the button of the second of the seco	resetting, inpected or disco ng button and nds, the inver on and go into e LED status t ing: UPS mode	then turn ter will se the setti	and the load n on the end out a ng procedure.
l list zevei	mode selection		LED St	Mode	UPS M	ode E	nergy Savin	g Mode	
			On St	atus	0		•		● Light
			Bat Lo	w	*		*		O Dark
			Saving	1	¥		*		¥ Flashing
		Step 4	The LED then rele		state by p	ressing tl	ne setting but	ton for 1	second and
	Output Voltage and		seconds released Please re voltage	and the invalue and you cate and you can be an early and you c	rerter will so in go on to below and is the one	end out a the second check the you need	AC / 60Hz)	l. The but 'voltage /	ton can be frequency". he output • Light
Second Level	Frequency Adjustment			On	→	*	*	*	O Dark
			60Hz	Bat Low	0	0	•	•	≠ Flashing
		Step 3	The LED then rele	ease.	O state by p	115V (230V) 50	11	ton for 1	second and
Third Level			for 5 sec be release Please re (Factory LED St	conds and ti sed and you efer to table setting: sa Mode atus	he inverter I can go int below and Ving mode	will send to the sett I check th OFF)	ting section for e LED status.	sound. The saving	ne button can mode". • Light
			Bat Lo			*	*		O Dark
			then rele Press the	will change ease. e setting bu	tton for 5 s	seconds a	ne setting but nd the inverted and all the	ton for 1 er will ser	nd out a

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

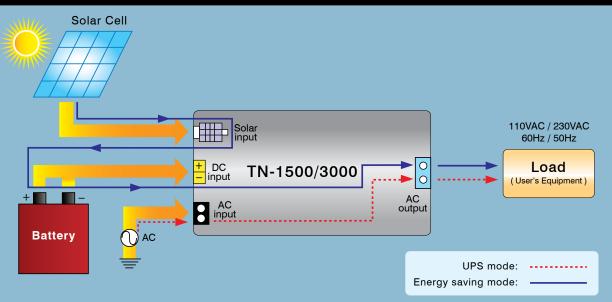
2.For setting procedure of other product series, please refer to http://www.meanwell.com/product/inverter/inverter01.html

The inverter will automatically store all the setting and then start to operate.



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 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.



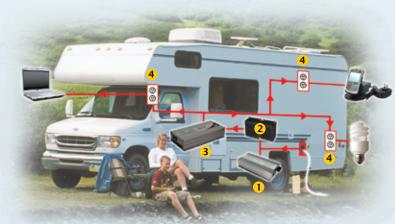
Applications



- 1 Solar Panel
- 2 Battery Bank
- 3 Off-Grid DC/AC Solar Inverter (TN Series)
- 4 AC Input (bypass)
- 5 AC Outlet

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





- 1 AC/DC Battery Charger (PB series)
- 2 Battery Bank
- **3** Off-Grid DC/AC 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.



Taiwar

明緯企業股份有限公司 MEAN WELL ENTERPRISES CO., LTD.

新北市五股區五權三路28號

No. 28, Wuquan 3rd Road, Wugu District, New Taipei City, Taiwan, 24891

Tel +886-2-2299-6100(rep.)

Fax +886-2-2299-6200(rep.) +886-2-2298-0818(sales)

E-mail info@meanwell.com Web www.meanwell.com

China

明緯(廣州)電子有限公司 MEAN WELL (GUANGZHOU) ELECTRONICS CO., LTD.

廣州市天河區東圃鎮黃村粵安工業園A棟2樓

2F, A Building, Yuean Industry Park, Huangcun,

Dongpu Town, Tianhe District, Guangzhou, China

Tel +86-20-2887-1200

Fax +86-20-8201-0507

E-mail info@meanwell.com.cn Web www.meanwell.com.cn

China

蘇州明緯科技有限公司 SUZHOU MEAN WELL TECHNOLOGY CO., LTD.

江蘇省蘇州市相城區黃埭鎮潘陽工業園東橋健民路77號

No.77, Jian-Ming Rd. Dong-Qiao, Pan-Yang Ind. Park, Huang-Dai Town,

 $Xiang\text{-}Cheng\ District,\ SuZhou,\ Jiang\text{-}Su,\ China$

 $\textbf{E-mail} \ \ \, \textbf{info@meanwell.cc} \ \ \, \textbf{Web} \ \ \, \textbf{www.meanwell.cc}$

U.S.A.

MEAN WELL USA, INC.

44030 Fremont Blvd., Fremont, CA 94538, U.S.A.

 $\textbf{E-mail} \ \ \mathsf{info@meanwellusa.com} \ \ \ \textbf{Web} \ \ \mathsf{www.meanwellusa.com}$

Europe

MEAN WELL EUROPE B.V.

Langs de Werf 8, 1185XT Amstelveen, the Netherlands Tel +31-20-758-6000 Fax +31-20-758-6001 E-mail info@meanwell.eu Web www.meanwell.eu

Please contact your local distributor:



For more information, please visit: