

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-Type only), EN60950-1			UL60950-1, TUV EN60950-1, EN60335-2-29 (except for 55.2V)	UL1012, 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	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			

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 PB-230-xx	Power DIN 4P	EG CB FC CE (GC series only)
GC120Axx-AD1 GC160Axx-AD1 GC220Axx-AD1 PB-230-xxAD1	Anderson Connector	(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

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		PB-1000		
AC input voltage	ange	90~132VAC / 180~264VAC s	selectable 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	shut off output voltage, re-power on to recover			
Withstand voltage		I/P-O/P: 3kVAC, 1 minute				
Working temperat	ure	-10~+50°C				
PB-300/360: UL60950-1, CB IEC60335-2-29 (except for 48V) Safety standards PB-600: UL1012, TUV EN60950-1 (48V only), TUV EN60335-2-29 (except for 48V) PB-1000: UL60950-1, TUV EN60950-1						
EMC standards EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3 (except for PB-300N/360N)			/360N)			
DC output connec	tor	Terminal block 2P Terminal block 3P			Terminal block 3P	

300W					
Model	Name	Wattage	Output	Effi.	
PB-30	012	300W	14.4V, 0~20.85A	85%	
PB-30	024	302W	28.8V, 0~10.5A	86%	
PB-30	048	305W	57.6V, 0~5.3A	88%	
□ =P.	N ; P: with	PFC, N: non Pl	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%		

360W						
Model Name	Wattage	Output	Effi.			
PB-360 -12	350W	14.4V, 0~24.3A	85%			
PB-36024	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 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
- High efficiency up to 88%
- · 2 years warranty
- · Protections:

Battery low alarm / Battery low shutdown / Overload / Over temperature / Output short / Input reverse polarity

 Modified models available: 100/115/120VAC or 200/220/240VAC





FC CE

205x 158x 67 m

Output power	r	500W (rated power); 1000W (surge power)	
DC input rate	ed voltage	12VDC, 24VDC or 48VDC	
AC onput voltage range/Frequency		110VAC/60Hz or 230VAC/50Hz	
AC output wa	aveform	Modified sine wave	
AC output regulation		±10%	
No load disspation (typ.)		≤9.6W	
Working tem	perature	-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 standa	ards	Compliance to EN60950-1(LVD)	
EMC standar	4-	Compliance to FCC part 15 class A,	
EINIC Standar	us	EN55022 class A, EN61000-4-2,3,8	

		158X 67 MI	m			
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 (standard model), C, D, E, U (optional 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

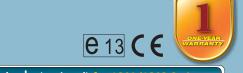
- High frequency design
- Input protections:

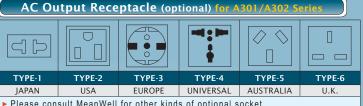
Reverse polarity / Over and under voltage / Battery low alarm and shutdown

- 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

A302-600-F3

600W





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



Model Name	A301	A302			
DC input rated voltage	12.5VDC	25.0VDC			
AC output voltage / Frequency	110VAC(rms) / 60Hz or 230VAC(rms) / 50Hz	2			
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			

EMC standa	ras		Compliar	ice to EN5	5022 cl
		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	150W	21-30	110 / 60	TYPE-2	82%
A302-150-F3	150W	21-30	230 / 50	TYPE-3	82%
		300W	1		
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	300W	21-30	110 / 60	TYPE-2	85%
A302-300-F3	300W	21-30	230 / 50	TYPE-3	85%
		600W	1		
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	600W	21-30	110 / 60	TYPF-2	85%

21-30

230 / 50

		1000	W		
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%
	Carried Inches	A 11 1 1 1			11/4/1

85%

TYPE-3





200~700W 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
- · 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:

TS-400

Home appliance, power tools, office and portable equipment, vehicle and yacht...etc.

· 3 years warranty





TS-200



205x 158x 59 mm

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 ratir	ig (30 cycles)	400W	800W	1400W			
DC input rated voltage 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					
	230V	Compliance to EN60950-1(LVE	Compliance to EN60950-1(LVD)				
EMC standards	110V	Compliance to FCC part 15 class A					
LIVIC Stalluarus	230V	Compliance to EN55022 class	A, E-Mark, EN61000-4-2,3,8				

		2000	V		
Model Nar	ne Continu power		Output VAC / Hz	Output socket	Effi.
TS-200-112	2A 200W	10.5-15	110 / 60	TYPE-A	86.0%
TS-200-124	4A 200W	21.0-30	110 / 60	TYPE-A	87.5%
TS-200-148	8A 200W	42.0-60	110 / 60	TYPE-A	88.0%
TS-200-212	2B 200W	10.5-15	230 / 50	TYPE-B	86.0%
TS-200-224	4B 200W	21.0-30	230 / 50	TYPE-B	87.5%
TS-200-248	3B 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-700-224B	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
	0 0 0		
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%
- · 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











Rated output pow	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 vo	ltage	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	utput frequency 50Hz/60Hz adjustable via setting button on front panel				
AC output wavefo	AC output waveform True sine wave, THD<3.0%				
AC output regulat	ion (Typ.)	±3% of rated output voltage	utput voltage		
No load dissipation	n (Typ.)	≤ 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 4	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 Staffuarus	230V	Compliance to EN55022 class	ss A (class B for TS-1500), E-Mai	rk, 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%
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%
		1 F O O W			

		I DUUW			
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.



FC CE

75x 55x 21mm

· 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

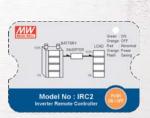
· Suitable series:

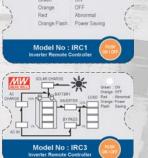
Features:

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)



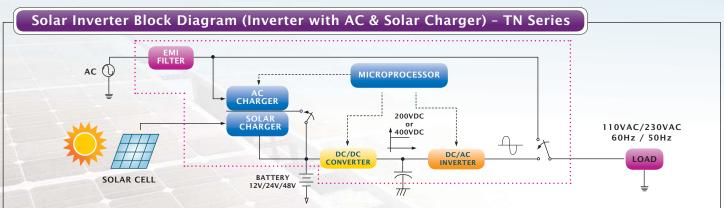


TN-1500

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	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.)	±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	AC output waveform True sine wave, THD<3.0%					
Transfer time (Typ.)	10ms; inverter mode === Bypass mode				
Working temperat	ure	0~+60°C				
Sefetive 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				
EMC standards 230V		Compliance to EN55022 class A (class B for TN-1500), E-Mark, EN61000-4-2,3,4,5,6,8,11				



		1500W	I		
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%
TN-1500-148A TN-1500-212B TN-1500-224B	1500W 1500W 1500W	42.0-60 10.5-15 21.0-30	110 / 60 230 / 50 230 / 50	TYPE-A TYPE-B TYPE-B	89% 88% 90%

Γ] = A	В	(standard	model).	C. D	E.F	(optional	model).	G (optiona	I model for	TN-3000	only)
	71	D	Juliuala	model,	0, 0	, - ,1	Coptional	mouch,	O (Optiona	i illouci lo	114 0000	Offiny)

[►] 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-3000-248B	3000W	42.0-60	230 / 50	TYPE-B	92%



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

Fro	nt Panel		OFF	AC OUTPUT	SCLAR CHARGE AC CHARGE AC CHARGE AC THE CHARGE AC THE CHARGE ACTURE BATTER BY BY BY BY BY BY BY BY BY B	VERTER Selfing	press th		d stick to
Fı	unction				Settin	g Proce	dure		
			connecte should b Use an ir power sv	ed. AC mair e removed nsulated sti witch. After	can either ck to press pressing fo	the settin or 5 secon	esetting, inpu cted or discon g button and t ds, the inverte n and go into	nected, a then turr er will se	and the load n on the
First Level	UPS and Energy Saving Mode Selection	Step 3			u need. (Fa	ctory settii	e LED status to ng: UPS mode)		ne operating
			LED St	atus	UPS M	ode Ei	nergy Saving	Mode	
			On		0		•		• Light
			Bat Lo		*		*		O Dark ➤ Flashing
		Step 4		will change		ressing th	e setting butto	on for 1	9
		seconds released Please re voltage	and the invalue and you catefor to table frequency setting: 23	verter will so in go on to below and is the one	end out a the second I check the you need	115VAC	The but oltage /	ton can be frequency". ne output	
Second Level	Output Voltage and Frequency Adjustment		50Hz	On Bat Low Saving	• 0 0	0	•	•	■ Light ■ O Dark
			60Hz	On Bat Low Saving	0	* •	•	•	≯ Flashing
		Step 3	The LED then rele	ease.	e state by p	115V (230V) 50H	110	V 50Hz	100V (200V) 60Hz
			for 5 sec be release Please re	onds and t sed and you	he inverter I can go int I below and Ving mode	will send to the setti I check the OFF)	equency, press out a "Beep" s ing section for E LED status.	ound. Th	e button can
			LED St		(ON	OFF		
Third Level	Saving Mode Selection		On			¥	¥		• Light
			Bat Lo			*	•		O Dark Flashing
			then rele Press the "Beep" so	will change ase. e setting bu ound, the b	tton for 5 s utton can b	ressing th seconds ar	e setting buttond the inverter	will sen	second and d out a

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

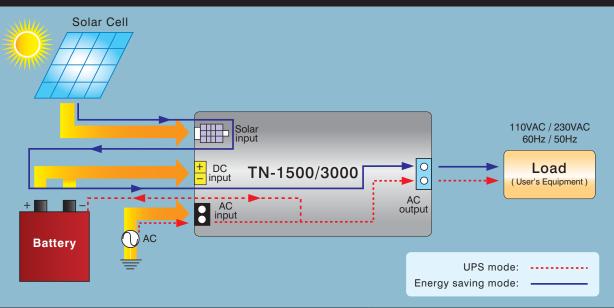
2.For setting procedure of other product series, please refer to http://www.meanwell.com/product/inverter/inverter01.html

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 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.



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