



- ▶ 100~2500W *Modified Sine Wave Inverter*
- ▶ 200~3000W *True Sine Wave Inverter*
- ▶ 1500~3000W *True Sine Wave Solar Inverter*

DC-AC POWER INVERTER



WWW.MEANWELL.COM

True Sine Wave Solar Inverter



UL US E13 FCC CE

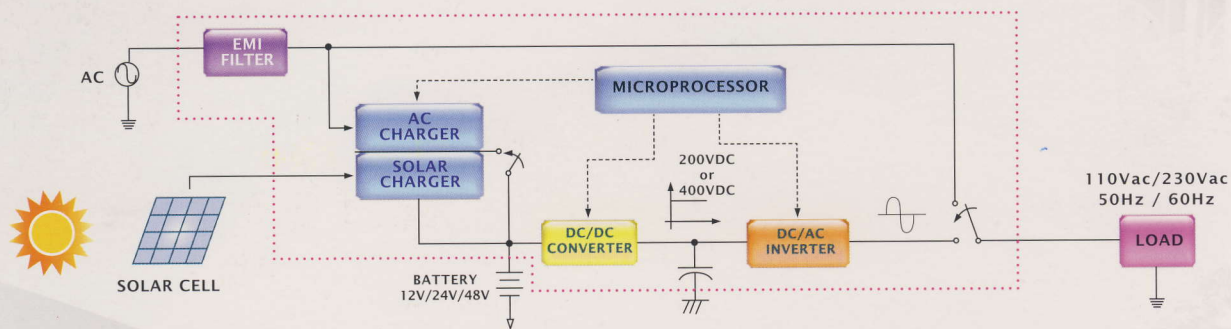
Features

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

- True Sine wave output (THD<3%)
- 2 times high surge power for motor related application
- Advanced digital control by microprocessor
- High efficiency up to 93%
- Power 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
- Output protections: Short circuit / Overload / Over temperature / AC circuit breaker
- Front panel indicator for load / battery / operation status
- High frequency design
- With UPS function: AC by pass / Built-in AC and solar charger
- Fast transfer time under 10ms (Inverter mode \rightleftharpoons By pass mode)
- Solar input current up to 30A max.
- Optional monitoring software



Solar Inverter Block Diagram - TN Series



TN-1500



420x220x88 mm

Model Name	Wattage (continuous)	Surge Rating (30 cycles)	Input Voltage	Output Voltage	Output Frequency	Efficiency (Typ.)
TN-1500-112A	1500W	3000W	10.5~15Vdc	110Vac \pm 3%	60Hz \pm 0.1%	87%
TN-1500-124A			21~30Vdc	100 ~120Vac adjustable by front panel	50/60Hz adjustable by front panel	89%
TN-1500-148A			42~60Vdc	200 ~240Vac adjustable by front panel	50/60Hz adjustable by front panel	90%
TN-1500-212B	1500W	3000W	10.5~15Vdc	230Vac \pm 3%	50Hz \pm 0.1%	88%
TN-1500-224B			21~30Vdc	200 ~240Vac adjustable by front panel	50/60Hz adjustable by front panel	90%
TN-1500-248B			42~60Vdc	200 ~240Vac adjustable by front panel	50/60Hz adjustable by front panel	91%

TN-3000

Developing



474x283x98 mm

Model Name	Wattage (continuous)	Surge Rating (30 cycles)	Input Voltage	Output Voltage	Output Frequency	Efficiency (Typ.)
TN-3000-112A	3000W	6000W	10.5~15Vdc	110Vac \pm 3%	60Hz \pm 0.1%	87%
TN-3000-124A			21~30Vdc	100 ~120Vac adjustable by front panel	50/60Hz adjustable by front panel	89%
TN-3000-148A			42~60Vdc	200 ~240Vac adjustable by front panel	50/60Hz adjustable by front panel	90%
TN-3000-212B	3000W	6000W	10.5~15Vdc	230Vac \pm 3%	50Hz \pm 0.1%	88%
TN-3000-224B			21~30Vdc	200 ~240Vac adjustable by front panel	50/60Hz adjustable by front panel	90%
TN-3000-248B			42~60Vdc	200 ~240Vac adjustable by front panel	50/60Hz adjustable by front panel	93%



True Sine Wave



Features

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

- True Sine wave output (THD<3%)
- 2 times high surge power for motor related applications
- Advanced digital control by microprocessor
- High efficiency up to 93%
- Power 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
- Output protections: Short circuit / Overload / Over temperature
- Front panel indicator for load / battery / operation status
- High frequency design



AC Output Receptacles (optional) for TN/TS series

Type A	Type B	Type C	Type D	Type E	Type F
USA	EUROPE	AUSTRALIA	UK	JAPAN	GFCI

TS-200

Developing



225x136x59 mm

Model Name	Wattage (continuous)	Surge Rating (30 cycles)	Input Voltage	Output Voltage	Output Frequency	Efficiency (Typ.)
TS-200-112A TS-200-124A TS-200-148A	200W	400W	10.5~15Vdc 21~30Vdc 42~60Vdc	110Vac ±3% 100~120Vac adjustable by front panel	60Hz±0.1% 50/60Hz adjustable by front panel	85% 87% 88%
TS-200-212B TS-200-224B TS-200-248B	200W	400W	10.5~15Vdc 21~30Vdc 42~60Vdc	230Vac ±3% 200~240Vac adjustable by front panel	50Hz±0.1% 50/60Hz adjustable by front panel	87% 89% 90%

TS-400

Developing



225x136x67 mm

Model Name	Wattage (continuous)	Surge Rating (30 cycles)	Input Voltage	Output Voltage	Output Frequency	Efficiency (Typ.)
TS-400-112A TS-400-124A TS-400-148A	400W	800W	10.5~15Vdc 21~30Vdc 42~60Vdc	110Vac ±3% 100~120Vac adjustable by front panel	60Hz±0.1% 50/60Hz adjustable by front panel	85% 87% 88%
TS-400-212B TS-400-224B TS-400-248B	400W	800W	10.5~15Vdc 21~30Vdc 42~60Vdc	230Vac ±3% 200~240Vac adjustable by front panel	50Hz±0.1% 50/60Hz adjustable by front panel	87% 89% 90%

TS-700



295x184x70 mm

Model Name	Wattage (continuous)	Surge Rating (30 cycles)	Input Voltage	Output Voltage	Output Frequency	Efficiency (Typ.)
TS-700-112A TS-700-124A TS-700-148A	700W	1400W	10.5~15Vdc 21~30Vdc 42~60Vdc	110Vac ±3% 100~120Vac adjustable by front panel	60Hz±0.1% 50/60Hz adjustable by front panel	86% 88% 89%
TS-700-212B TS-700-224B TS-700-248B	700W	1400W	10.5~15Vdc 21~30Vdc 42~60Vdc	230Vac ±3% 200~240Vac adjustable by front panel	50Hz±0.1% 50/60Hz adjustable by front panel	89% 90% 91%



True Sine Wave



TS-1000



345x184x70 mm

Model Name	Wattage (continuous)	Surge Rating (30 cycles)	Input Voltage	Output Voltage	Output Frequency	Efficiency (Typ.)
TS-1000-112A TS-1000-124A TS-1000-148A	1000W	2000W	10.5~15Vdc 21~30Vdc 42~60Vdc	110Vac \pm 3% 100 ~120Vac adjustable by front panel	60Hz \pm 0.1% 50/60Hz adjustable by front panel	88% 89% 90%
TS-1000-212B TS-1000-224B TS-1000-248B	1000W	2000W	10.5~15Vdc 21~30Vdc 42~60Vdc	230Vac \pm 3% 200~240Vac adjustable by front panel	50Hz \pm 0.1% 50/60Hz adjustable by front panel	90% 91% 92%

TS-1500



420x220x88 mm

Model Name	Wattage (continuous)	Surge Rating (30 cycles)	Input Voltage	Output Voltage	Output Frequency	Efficiency (Typ.)
TS-1500-112A TS-1500-124A TS-1500-148A	1500W	3000W	10.5~15Vdc 21~30Vdc 42~60Vdc	110Vac \pm 3% 100 ~120Vac adjustable by front panel	60Hz \pm 0.1% 50/60Hz adjustable by front panel	87% 89% 90%
TS-1500-212B TS-1500-224B TS-1500-248B	1500W	3000W	10.5~15Vdc 21~30Vdc 42~60Vdc	230Vac \pm 3% 200~240Vac adjustable by front panel	50Hz \pm 0.1% 50/60Hz adjustable by front panel	88% 90% 91%

TS-3000

Developing



474x283x98 mm

Model Name	Wattage (continuous)	Surge Rating (30 cycles)	Input Voltage	Output Voltage	Output Frequency	Efficiency (Typ.)
TS-3000-112A TS-3000-124A TS-3000-148A	3000W	6000W	10.5~15Vdc 21~30Vdc 42~60Vdc	110Vac \pm 3% 100 ~120Vac adjustable by front panel	60Hz \pm 0.1% 50/60Hz adjustable by front panel	87% 89% 90%
TS-3000-212B TS-3000-224B TS-3000-248B	3000W	6000W	10.5~15Vdc 21~30Vdc 42~60Vdc	230Vac \pm 3% 200~240Vac adjustable by front panel	50Hz \pm 0.1% 50/60Hz adjustable by front panel	88% 90% 93%

Planning

- True Sine Wave Inverter: TS-2200 (2200W)
- True Sine Wave Solar Inverter: TN-2200 (2200W)



Advantages of Mean Well's Product

- One stop shopping for AC-DC, DC-DC, DC-AC products.
- Professional design, stable quality, low cost, and prompt service.
- Production by planning, 95% of models are in stock.
- Complete 100~2500W modified sine wave and 200~3000W true sine wave inverters.
- High flexibility of modification to meet customers' request.
- Continuously launching new products.

Modified Sine Wave



e13



LVD
tested



Features

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

- Input protections: Reverse polarity / Over and under voltage / Battery low alarm & shutdown
- Output protections: Short circuit / Overload / Over temperature
- Input and output fully isolation
- With power ON/OFF switch and LED indicator
- Built-in ON/OFF remote control for 1000~2500W (optional)
- Low power consumption to conserve energy
- High frequency design



AC Output Receptacles (optional) for A301/A302 Series

TYPE-1 JAPAN	TYPE-2 USA	TYPE-3 EUROPE	TYPE-4 UNIVERSAL	TYPE-5 AUSTRALIA	TYPE-6 UK

A301/302-100



170 mm x65ø

Model Name	Wattage (continuous)	Input Voltage	Output Voltage	Output Frequency	Efficiency (Typ.)
A301-100-F3 A302-100-F3	100W	10~15Vdc 21~30Vdc	230Vac±10%	50Hz±1%	90% 90%

A301/302-150



122x73x45 mm

Model Name	Wattage (continuous)	Input Voltage	Output Voltage	Output Frequency	Efficiency (Typ.)
A301-150-B ② A302-150-B ②	150W	10~15Vdc 21~30Vdc	110Vac±10%	60Hz±1%	78% 82%

A301/302-150



165x94x69 mm

Model Name	Wattage (continuous)	Input Voltage	Output Voltage	Output Frequency	Efficiency (Typ.)
A301-150-F ③ A302-150-F ③	150W	10~15Vdc 21~30Vdc	230Vac±10%	50Hz±1%	78% 82%

A301/302-300



165x88x74 mm

Model Name	Wattage (continuous)	Input Voltage	Output Voltage	Output Frequency	Efficiency (Typ.)
A301-300-B ② A302-300-B ②	300W	10~15Vdc 21~30Vdc	110Vac±10%	60Hz±1%	82% 85%
A301-300-F ③ A302-300-F ③	300W	10~15Vdc 21~30Vdc	230Vac±10%	50Hz±1%	82% 85%

A301/302-600



210x173x65 mm

Model Name	Wattage (continuous)	Input Voltage	Output Voltage	Output Frequency	Efficiency (Typ.)
A301-600-B ② A302-600-B ②	600W	10~15Vdc 21~30Vdc	110Vac±10%	60Hz±1%	82% 85%
A301-600-F ③ A302-600-F ③	600W	10~15Vdc 21~30Vdc	230Vac±10%	50Hz±1%	82% 85%

A301/302-1K0



320x210x85 mm

Model Name	Wattage (continuous)	Input Voltage	Output Voltage	Output Frequency	Efficiency (Typ.)
A301-1K0-B ② A302-1K0-B ②	1000W	10~15Vdc 21~30Vdc	110Vac±10%	60Hz±1%	82% 85%
A301-1K0-F ③ A302-1K0-F ③	1000W	10~15Vdc 21~30Vdc	230Vac±10%	50Hz±1%	82% 85%

A301/302-1K7



455x210x85 mm

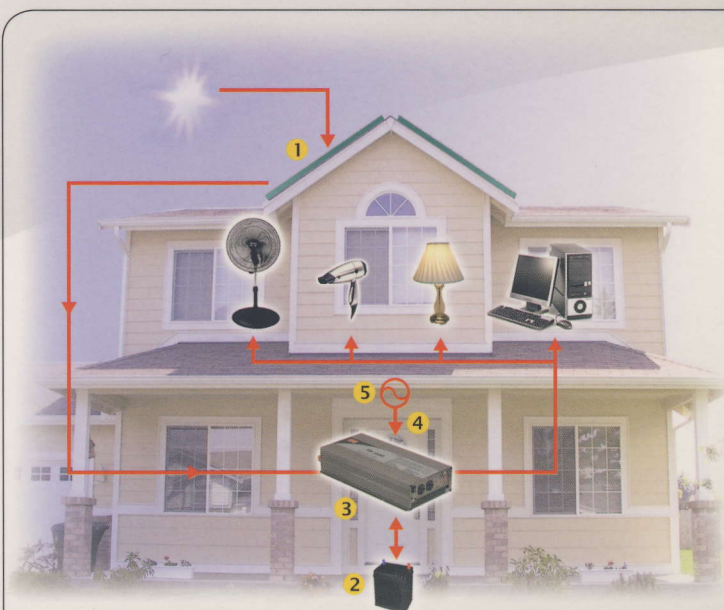
Model Name	Wattage (continuous)	Input Voltage	Output Voltage	Output Frequency	Efficiency (Typ.)
A301-1K7-B ② A302-1K7-B ②	1500W	10~15Vdc 21~30Vdc	110Vac±10%	60Hz±1%	82% 85%
A301-1K7-F ③ A302-1K7-F ③	1500W	10~15Vdc 21~30Vdc	230Vac±10%	50Hz±1%	82% 85%

A301/302-2K5



430x210x159 mm

Model Name	Wattage (continuous)	Input Voltage	Output Voltage	Output Frequency	Efficiency (Typ.)
A301-2K5-B ④ A302-2K5-B ④	2500W	10~15Vdc 21~30Vdc	110Vac±10%	60Hz±1%	82% 85%
A301-2K5-F ③ A302-2K5-F ③	2500W	10~15Vdc 21~30Vdc	230Vac±10%	50Hz±1%	82% 85%

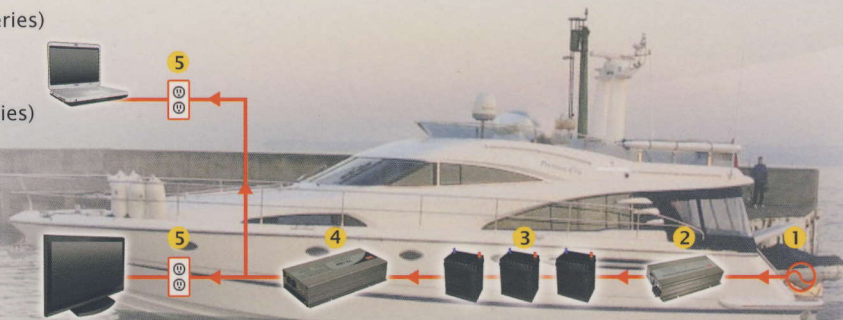


- 1 Solar Panel
- 2 Battery
- 3 Mean Well Solar Inverter (TN Series)
- 4 AC Input (by-pass)
- 5 Utility Input

Applications:

TV, DVD, Notebook, Personal Computer, Lighting, Refrigerator, fan, radio...etc.

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



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