

Explorer Bus

AC-DC BATTERY CHARGER

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

DC-AC POWER INVERTER

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

Total Solution For

Power Inverter & Battery Charger

N-3000

N-150

About MEAN WELL

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

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

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

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

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



Features

- Universal AC input / Full range
- AC input range selectable by switch (PB-120)
- No load power consumption<0.5W (GC120)
- No load power consumption < 1W (GC160/220/330)
- High efficiency up to 94%
- Built-in active PFC function, PF>0.9 (GC series) Built-in passive PFC function (PB-120)

326W

GC330A48-C4P

54.4V, 6A

- 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



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▲ GC120 167x 67x 35 mm		GC160 72x 35 mm 2	▲ GC220 210x 85x 46 mm		▲ GC330 220x 95x 46		▲ PA/PB-1 180x 96x 49 n		▲ PB-230 190x 96x 49 mm
Model Name		GC120 GC160	GC220	GC330]		20 A: pulse charge B: 2 section voltag	e charge	PB-230
AC input voltage r	ange	85~264VAC	90~264VAC	:			32VAC / 176~264 able by switch	VAC	90~264VAC
Charge style		2 stage		-		3 stag			
Over voltage prote	ection	105%~135%, sh re-power on to		oltage,		108%~ re-po	~127%, shut off ou wer on to recover	itput voltag (PB–230: 1	je, 02%~125%)
Withstand voltage		I/P-O/P: 3kVAC	C, 1 minute			•			
Working temperat	ure	-30~+70°C	-30~60°C			-10~+	+45°C		-20~+50°C
Safety standards		GC120~220: UL EN GC330: UL6095	60950-1				950–1, TUV EN609 335–2–29 (except		UL1012 (AD1–Type only), TUV EN60950–1
EMC standards		EN55022 class EN61000-3-2,3			,6,8,11,		022 class B, EN610 000-3-2,3	000-4-2,3,	4,5,6,8,11,
Standard DC output (Male, power supply s		Power DIN 4P wi Kycon KPPX-4P		4P/AMP equivale	1–480702–0 nt	MIC 3	Р	- 5-6	MIC 4P
		120W					120W	1	
Model Name			Effi	i.	Model Na		120W Wattage	Output	Effi.
Model Name GC120A12-□	Wattag 102W	je Output	Effi 0A 86.5		P□-120)-13	Wattage 99W	Output 13.8V, 0~7.2A	73.0%
GC120A12-□ GC120A24-□	Wattag 102W 120W	ye Output 13.6V, 7.5 27.2V, 4.4	0A 86.5 2A 90.0	%	P□-120 P□-120)-13)-27	Wattage 99W 119W 2	Output 13.8V, 0~7.2A 27.6V, 0~4.3A	73.0% 79.0%
GC120A12-□ GC120A24-□ GC120A48-□	Wattag 102W	ye Output 13.6V, 7.5 27.2V, 4.4	0A 86.5 2A 90.0	%	P□-120)-13)-27	Wattage 99W 119W 121W	Output 13.8V, 0~7.2A 27.6V, 0~4.3A 55.2V, 0~2.2A	73.0% 79.0%
GC120A12-□ GC120A24-□	Wattag 102W 120W	ye Output 13.6V, 7.5 27.2V, 4.4	0A 86.5 2A 90.0	%	P□-120 P□-120 P□-120)-13)-27)-54	Wattage 99W 119W 2 121W 5 2	Output 13.8V, 0~7.2A 27.6V, 0~4.3A 55.2V, 0~2.2A	73.0% 79.0% 79.0%
GC120A12-□ GC120A24-□ GC120A48-□	Wattag 102W 120W 120W	ye Output 13.6V, 7.5 27.2V, 4.4 54.4V, 2.2	0A 86.5 2A 90.0	%	P□-120 P□-120)-13)-27)-54 ame	Wattage 99W 119W 2 121W 5 2 Wattage Wattage Wattage	Output 13.8V, 0~7.2A 27.6V, 0~4.3A 55.2V, 0~2.2A Output	73.0% 79.0% 79.0% Effi.
GC120A12-□ GC120A24-□ GC120A48-□ □ = R7B, AD1	Wattag 102W 120W 120W	ye Output 13.6V, 7.5 27.2V, 4.4 54.4V, 2.2 160W	0A 86.5 2A 90.0 1A 91.0	% % %	P□ -120 P□ -120 P□ -120 Model N PB-230- PB-230-	0-13 0-27 0-54 ame .12 .24	Wattage 99W 119W 2 121W 5 230W Wattage 230W 2 230W 2 230W	Output 13.8V, 0~7.2A 27.6V, 0~4.3A 55.2V, 0~2.2A Output 14.4V, 0~16A 28.8V, 0~8A	73.0% 79.0% 79.0% Effi. 81.5% 85.5%
GC120A12-□ GC120A24-□ GC120A48-□	Wattag 102W 120W 120W Wattag	ye Output 13.6V, 7.5 27.2V, 4.4 54.4V, 2.2 160W	0A 86.5 2A 90.0 1A 91.0 Effi	% % %	P□ -120 P□ -120 P□ -120 Model N PB-230- PB-230- PB-230- PB-230-)-13)-27)-54 ame -12 -24 -48	Wattage 99W 119W 121W 230W 230W 230W	Output 13.8V, 0~7.2A 27.6V, 0~4.3A 55.2V, 0~2.2A Output 14.4V, 0~16A 28.8V, 0~8A 57.6V, 0~4A	73.0% 79.0% 79.0% Effi. 81.5% 85.5% 86.0%
GC120A12-□ GC120A24-□ GC120A48-□ □ = R7B, AD1	Wattag 102W 120W 120W 120W Wattag 136W	ye Output 13.6V, 7.5 27.2V, 4.4 54.4V, 2.2 160W 160W 13.6V, 10.0	0A 86.5 2A 90.0 1A 91.0 	% % % i. %	P□ -120 P□ -120 P□ -120 Model N PB-230- PB-230- PB-230- PB-230-)-13)-27)-54 ame -12 -24 -48	Wattage 99W 119W 121W 230W 230W 230W 230W 230W 230W 230W 90W	Output 13.8V, 0~7.2A 27.6V, 0~4.3A 55.2V, 0~2.2A Output 14.4V, 0~16A 28.8V, 0~8A 57.6V, 0~4A	73.0% 79.0% 79.0% Effi. 81.5% 85.5% 86.0%
GC120A12-□ GC120A24-□ GC120A48-□ □ = R7B, AD1	Wattag 102W 120W 120W Wattag	Output 13.6V, 7.5 27.2V, 4.4 54.4V, 2.2 160W ge Output 13.6V, 10.0 27.2V, 5.85	0A 86.5 2A 90.0 1A 91.0 	% % % i. % %	P□ -120 P□ -120 P□ -120 Model N PB-230- PB-230- PB-230- PB-230-	0-13 0-27 0-54 ame -12 -24 -48 unk, AD1	Wattage 99W 119W 121W 230W 230W 230W	Output 13.8V, 0~7.2A 27.6V, 0~4.3A 55.2V, 0~2.2A Output 14.4V, 0~16A 28.8V, 0~8A 57.6V, 0~4A	73.0% 79.0% 79.0% Effi. 81.5% 85.5% 86.0%
GC120A12- GC120A24- GC120A48- C = R7B, AD1 Model Name GC160A12- GC160A24-	Wattag 102W 120W 120W 120W Wattag 136W 160W	Je Output 13.6V, 7.5 27.2V, 4.4 27.2V, 4.4 54.4V, 2.2 160W 000000000000000000000000000000000000	0A 86.5 2A 90.0 1A 91.0 	% % % i. % %	P - 120 P - 230 - P - 230 P -	-13)-27)-54 ame .12 .24 .48 nk , AD1 ame -R7B	Wattage 99W 119W 121W 230W 230W 230W 230W 230W 230W 230W 90W	Output 13.8V, 0~7.2A 27.6V, 0~4.3A 55.2V, 0~2.2A Output 14.4V, 0~16A 28.8V, 0~8A 57.6V, 0~4A 4P, AD1: And	73.0% 79.0% 79.0% Effi. 81.5% 85.5% 86.0% erson Connector Safety
GC120A12- GC120A24- GC120A48- GC120A48- = R7B, AD1	Wattag 102W 120W 120W 120W 120W 120W 120W 120W	je Output 13.6V, 7.5 13.6V, 7.5 27.2V, 4.4 54.4V, 2.2 160W 13.6V, 10.0 13.6V, 10.0 13.6V, 10.0 154.4V, 2.9 13.6V, 2.9	0A 86.5 2A 90.0 1A 91.0 	% % % i. % %	P□ -120 P□ -120 P□ -120 Model N PB-230- PB-230- PB-230- □ = Bla Model Na GC120A GC160A	-13)-27)-54 ame .12 [] .24 [] .48 [] nk , AD1 ame -R7B -R7B	Wattage 99W 119W 121W 230W 230W 230W 230W 230W 230W 230W 90W	Output 13.8V, 0~7.2A 27.6V, 0~4.3A 55.2V, 0~2.2A Output 14.4V, 0~16A 28.8V, 0~8A 57.6V, 0~4A 4P, AD1: And	73.0% 79.0% 79.0% Effi. 81.5% 85.5% 86.0% erson Connector
GC120A12- GC120A24- GC120A48- C = R7B, AD1	Wattag 102W 120W 120W 120W 120W 120W 120W 120W	Output 13.6V, 7.5 27.2V, 4.4 54.4V, 2.2 160W ge Output 13.6V, 10.0 27.2V, 5.85	0A 86.5 2A 90.0 1A 91.0 	% % % i. % %	P - 120 P - 230 - P - 230 P -	-13)-27)-54 ame .12 .24 .48 nk , AD1 ame -R7B -R7B -R7B -R7B	Wattage 99W 119W 121W 230W 230W 230W 230W 230W 230W 230W 90W	Output 13.8V, 0~7.2A 27.6V, 0~4.3A 55.2V, 0~2.2A Output 14.4V, 0~16A 28.8V, 0~8A 57.6V, 0~4A 4P, AD1: And	73.0% 79.0% 79.0% Effi. 81.5% 85.5% 86.0% erson Connector Safety
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GC120A12-□ GC120A24-□ GC120A48-□ □ = R7B, AD1	Wattag 102W 120W 120W 120W 120W 120W 120W 120W	Output 13.6V, 7.5 27.2V, 4.4 54.4V, 2.2 Output 13.6V, 10.0 27.2V, 5.89 54.4V, 2.99 54.4V, 2.99 218W 13.6V, 13.0V, 13.0V, 13.0V, 13.0V, 13.0V, 13.0V, 13.0V, 13.0V, 13.0V, 10.0V, 10	0A 86.5 2A 90.0 1A 91.0 Effi 0A 89.0 9A 92.5 5A 94.0 Effi 5A 89.0	% % % i. % % %	P□ -120 P□	-13)-27)-54 ame -12 -24 -24 -48 ame -R7B -R7B -R7B -R7B -R7B -R7B	Wattage 99W 119W 2230W Wattage 230W 230W 230W 30W 230W 230W 230W 230W 230W 230W	Output 13.8V, 0~7.2A 27.6V, 0~4.3A 55.2V, 0~2.2A Output 14.4V, 0~16A 28.8V, 0~8A 57.6V, 0~4A 4P, AD1: And	73.0% 79.0% 79.0% Effi. 81.5% 85.5% 86.0% erson Connector Safety CBEFE CE (CC series only)
GC120A12- GC120A24- GC120A48- GC120A48- GC160A48- GC160A12- GC160A24- GC160A48- GC160A48- GC160A48- GC220A12- GC220A12- GC220A24-	Wattag 102W 120W 120W 120W 120W 120W 120W 120W	Output 13.6V, 7.5 27.2V, 4.4 54.4V, 2.2 160W ge Output 13.6V, 10.0 27.2V, 5.83 54.4V, 2.93 54.4V, 2.93 218W ge Output 13.6V, 13.6V, 13. 27.2V, 8A	0A 86.5 2A 90.0 1A 91.0 Effi 0A 89.0 9A 92.5 5A 94.0 Effi 5A 89.0 92.5	% % % i. % % %	P□ -120 P□ -120 P□ -120 Model N PB-230- PB-230- □ = Bla Model Na GC120A GC120A GC120A GC120A GC120A GC120A GC120A GC120A	-13)-27)-54 ame -12 -24 -24 -48 nk , AD1 ame -R7B -R7B -R7B -R7B -R7B -R7B -AD1 -AD1 -AD1	Wattage 99W 119W 220W Carrow Consector Power DIN 4P	Output 13.8V, 0~7.2A 27.6V, 0~4.3A 55.2V, 0~2.2A Output 14.4V, 0~16A 28.8V, 0~8A 57.6V, 0~4A 4P, AD1: And	73.0% 79.0% 79.0% Effi. 81.5% 85.5% 86.0% erson Connector Safety
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GC120A12- GC120A24- GC120A48- GC120A48- GC120A48- GC160A12- GC160A12- GC160A48- GC160A48- GC160A48- GC160A48- GC220A12- GC220A12- GC220A24-	Wattag 102W 120W 120W 120W 120W 120W 120W 120W	Output 13.6V, 7.5 27.2V, 4.4 54.4V, 2.2 160W ge Output 13.6V, 10.0 27.2V, 5.83 54.4V, 2.93 54.4V, 2.93 218W ge Output 13.6V, 13.6V, 13. 27.2V, 8A	0A 86.5 2A 90.0 1A 91.0 Effi 0A 89.0 9A 92.5 5A 94.0 Effi 5A 89.0 92.5	% % % i. % % %	P□ -120 P□ -120 P□ -120 Model N PB-230- PB-230- □ = Bla Model Na GC120A GC120A GC120A GC120A GC120A GC120A GC120A GC120A	-13)-27)-54 ame -12 -24 -24 -48 nk , AD1 ame -R7B -R7B -R7B -R7B -R7B -R7B -AD1 -AD1 -AD1 -AD1 AD1	Wattage 99W 119W 220W Carrow Consector Power DIN 4P	Output 13.8V, 0~7.2A 27.6V, 0~4.3A 55.2V, 0~2.2A Output 14.4V, 0~16A 28.8V, 0~8A 57.6V, 0~4A 4P, AD1: And (73.0% 79.0% 79.0% Effi. 81.5% 85.5% 86.0% erson Connector Safety CB FC C C (00 series only)
GC120A12-□ GC120A24-□ GC120A48-□ □ = R7B, AD1	Wattag 102W 120W 120W 120W 120W 120W 120W 120W	Output 13.6V, 7.5 27.2V, 4.4 54.4V, 2.2 160W ge Output 13.6V, 10.0 27.2V, 5.83 54.4V, 2.93 54.4V, 2.93 218W ge Output 13.6V, 13.6V, 13. 27.2V, 8A	0A 86.5 2A 90.0 1A 91.0 Effi 0A 89.0 9A 92.5 5A 94.0 Effi 5A 89.0 92.5	% % % i. % % %	P□ -120 P□ -120 P□ -120 Model Ni PB-230- PB-230- □ = Bla Model Na GC120A△ GC120A△ GC120A△ GC120A△ GC120A△ GC120A△ GC120A△ GC120A△ GC120A△ GC120A△ GC120A△ GC120A△	-13)-27)-54 ame 12 -24 -24 -48 nk , AD1 ame -R7B -R7B -R7B -R7B -R7B -AD1 -AD1 -AD1 AD1 -AD1 -C4P	Wattage 99W 119W 2 220W Wattage 230W 230W 3 230W 3 Blank: Power DIN Output Connector Power DIN 4P Anderson Connector	Output 13.8V, 0~7.2A 27.6V, 0~4.3A 55.2V, 0~2.2A Output 14.4V, 0~16A 28.8V, 0~8A 57.6V, 0~4A 4P, AD1: And () () () () () () () () () ()	73.0% 79.0% 79.0% Effi. 81.5% 85.5% 86.0% erson Connector Safety CB F€ C € (GC series only)
GC120A12- GC120A24- GC120A48- GC120A48- GC120A48- GC160A12- GC160A24- GC160A48- GC160A48- GC160A48- GC220A12- GC220A12- GC220A24- GC220A48-	Wattag 102W 120W 120W 120W 120W 120W 120W 120W	ge Output 13.6V, 7.5 27.2V, 4.4 27.2V, 4.4 54.4V, 2.2 160W Output 13.6V, 10.0 27.2V, 5.89 27.2V, 5.89 54.4V, 2.99 218W Output 13.6V, 13.6V, 13.0 27.2V, 8A 54.4V, 4A 54.4V, 4A	0A 86.5 2A 90.0 1A 91.0 Effi 0A 89.0 9A 92.5 5A 94.0 Effi 5A 89.0 92.5	% % % % i. % % % % % % % % % % % % % % %	P□ -120 P□ -120 P□ -120 P□ -120 PB-230- PB-230- PB-230- □ = Bla Model Na GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ GC120AΔ G	-13 -27 -54 ame -12 -24 -24 -48 nk, AD1 ame -R7B -R7B -R7B -R7B -R7B -AD1 -AD1 -AD1 -AD1 -AD1 -AD1 -AD1 -AD1 -2D1 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2 -2D2	Wattage 99W 119W 2 230W Wattage 230W 230W 3 3 3 Blank: Power DIN 4P Power DIN 4P Anderson Connector	Output 13.8V, 0~7.2A 27.6V, 0~4.3A 55.2V, 0~2.2A Output 14.4V, 0~16A 28.8V, 0~8A 57.6V, 0~4A 4P, AD1: And Question of the second seco	73.0% 79.0% 79.0% 81.5% 81.5% 86.0% erson Connector Safety CBFC (C series only) CBFC (C series only) CBFC (C Series only) CBFC (C Series only)

- △ = 12,24,48 ; R7B: Power DIN 4P, AD1: Anderson Connector
- 🔾 = 36,48 ; C4P: AMP 1-480702-0 equivalent

93.5%



300~1000W

Stationary Battery Charger

Please refer to www.meanwell.com for detail spec Features • Built-in remote ON/OFF control • Universal AC input / Full range (PB-600/1000) • 2/3/8 stage smart charger for PB-600/1000 • AC input range selectable by switch (PB-300/360) • Built-in passive PFC function (PB-300P/360P) Protections: Short circuit / Over voltage / Over temperature / Reverse polarity • Built-in active PFC function (PB-600/1000) • LED indicator for charging status • 3 poles AC inlet IEC320-C14 • 3 years warranty • Cooling by built-in DC fan (except for PB-300) • Built-in ON/OFF power switch

		• DD 200 and 405	() -			DD 4000 000 00	
▲ PB-300 253x 1	35x 48.5 mm	▲ PB-360 253x 135x	(48.5 mm	A PB-000	230x 158x 67 mm	▲ PB-1000 300x 18	84x /0 mm
Model Name		PB-300	PB-360		PB-600	PB-1000	
AC input voltage ra	ange	90~132VAC / 180~264VA	C selectable by sv	witch	90~264VAC		
Charge style		3 stage			2/3/8 stage (selecta	ble)	
Over voltage	Range	108%~125%			112%~125%	110%~125%	
protection	Туре	shut off output voltage,	re-power on to	recover			
Withstand voltage		I/P-O/P: 3kVAC, 1 minut	te				
Working temperatu	ire	$-10 \sim +50^{\circ}C$	-20~+60°C				
		PB-300/360: UL60950-1	, CB IEC60335-2	-29 (except for 4	·8V)		
Safety standards		PB-600: UL1012, TUV EN60950-1 (48V only), TUV EN60335-2-29 (except for 48V)			or 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)					
DC output connect	or	Terminal block 2P	block 2P Terminal block 3P				ck 3P
300W				600W			
Model Name	Wattage	e Output	Effi.	Model N	lame Wattage	Output	Effi.
PB-30012	300W	14.4V, 0~20.85A	85%	PB-600	-12 576W	14.4V. 0~40.0A	86%
PB-30024	302W	28.8V, 0~10.5A	86%	PB-600		,	
PB-30048	305W	57.6V, 0~5.3A	88%	PB-000	-24 605W	28.8V, 0~21.0A	87%
🗌 =P, N ; P: wit	h PFC, N: no	on PFC		PB-600	-48 605W	57.6V, 0~10.5A	89%

360W						
Model Name	Wattage	Output	Effi.			
PB-36012	350W	14.4V, 0~24.3A	85%			
PB-36024	360W	28.8V, 0~12.5A	86%			
PB-36048	360W	57.6V, 0~6.25A	87%			

500W DC/AC Off-Grid Solar Inverter

Features

 True sine wave output (THD<3%) • Built-in 500W MPPT solar charger,

= P, N ; P: with PFC, N: non PFC

- 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

Model Name

PB-1000-12

PB-1000-24

PB-1000-48



205x 158x 67 mm

1000W

Output

14.4V, 0~60.0A

28.8V, 0~34.7A

57.6V, 0~17.4A

Effi.

85%

88%

89%

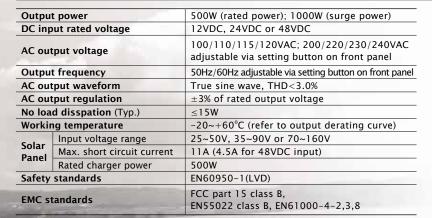
FCC/CE pending

Wattage

864W

999W

1002W



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 (optio	onal model)
Please refer	to Page 4 f	or AC outp	ut recepta	cle list	

2

100~2500W Modified Sine Wave

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





200~700w True Sine Wave

Features

Safety standards

EMC standards

- 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 pa

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



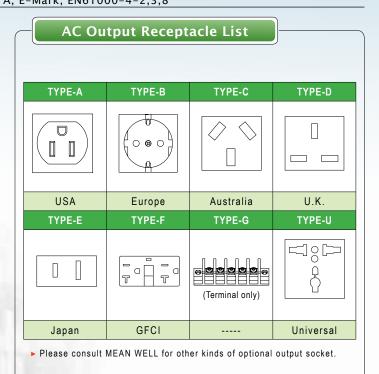
Front panel indicator for load	d / battery / operation status	 3 years warranty 	
	TS-200	TS-400	TS-700
	205x 158x 59 mm	205x 158x 67 mm	295x 184x 70 mm
Rated output power	200W	400W	700W
Maximum output power	230W for 3 minutes; 300W for 10 sec.	460W for 3 minutes; 600W for 10 sec.	800W for 3 minutes; 1050W for 10 sec.
Output surge rating (30 cycles)	400W	800W	1400W
DC input rated voltage	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 set	ting button on front panel	
AC output waveform	True sine wave, THD<3.0%		
AC output regulation (Typ.)	\pm 3% of rated output voltage		
No load dissipation (Typ.)	≤15W		≤6W@standby saving mode
Working temperature	-10~+60°C		0~+60°C
Safety standards 110V	Design refer to UL458		

110V Compliance to FCC part 15 class A 230V Compliance to EN55022 class A, E-Mark, EN61000-4-2,3,8

Compliance to EN60950-1(LVD)

		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-200-224B	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%
			al as a daily		

230V



= A, B (standard model), C, D, E, F (optional model) No. of Concession, Name of Street, or other



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
- equipment, vehicle and yacht...etc.
- 3 years warranty



TS-1000 TS-1500 TS-3000 345x 184x 70 mm 466.8x 283.5x 100 mm 420x 220x 88 mm

Rated output powe	er	1000W	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 vol	ltage	12VDC, 24VDC or 48VDC				
AC output voltage		100 / 110 / 115 / 120VAC or 200 / 220 / 230 / 240VAC adjustable via setting button on front pa				
Output frequency		50Hz/60Hz adjustable via setting button on front panel				
AC output wavefor	rm	True sine wave, THD<3.0%				
AC output regulat	ion (Typ.)	±3% of rated output voltage				
No load dissipatio	n (Typ.)	Typ.) $\leq 6W$ @ standby saving mode $\leq 18W$ @ standby saving mode $\leq 10W$ @ standby saving mode				
Working temperature 0~+60°C						
Safaty 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 TS-1500), E-Mark, EN61000-4-2,3,8				

1000W Cantinua

Model Name	power	VDC	VAC / Hz	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%
		15001			

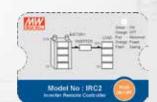
		1500W			
Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
TS-1500-112A	1500W	10.5-15	110 / 60	TYPE-A	87%
TS-1500-124A	1500W	21.0-30	110 / 60	TYPE-A	89%
TS-1500-148A	1500W	42.0-60	110 / 60	TYPE-A	89%
TS-1500-212B	1500W	10.5-15	230 / 50	TYPE-B	88%
TS-1500-224 B	1500W	21.0-30	230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

Inverter Remote Controller

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



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





= 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.



True Sine Wave with Solar Charger

Features

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

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

TN-3000

• Solar input current up to 30A max.

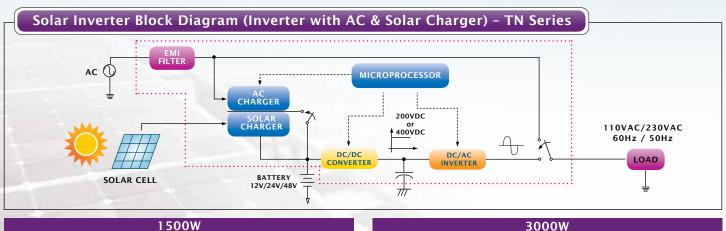
1500~3000W

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



|--|





1500W							
Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.		
TN-1500-112A	1500W	10.5-15	110 / 60	TYPE-A	87%		
TN-1500-124A	1500W	21.0-30	110 / 60	TYPE-A	89%		
TN-1500-148A	1500W	42.0-60	110 / 60	TYPE-A	89%		
TN-1500-212B	1500W	10.5-15	230 / 50	TYPE-B	88%		
TN-1500-224B	1500W	21.0-30	230 / 50	TYPE-B	90%		
TN-1500-248B	1500W	42.0-60	230 / 50	TYPE-B	91%		
= A, B (standard	model), C, D, E			I model for TN-3	3000 only)		

Please refer to page 4 for AC output receptacle list.

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

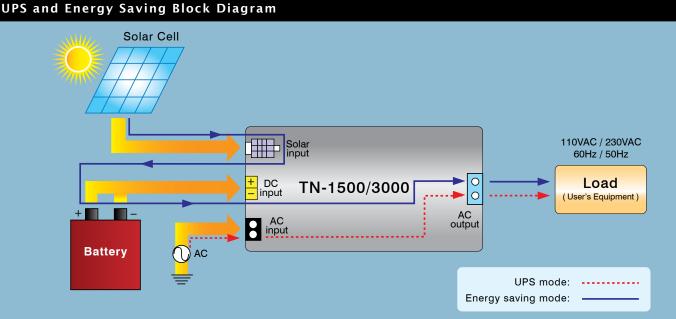
Front Panel					V V V V V V V V V V V V V V V V V V V	press t	insulated his settin	d stick to ig button
F	unction	G. 1			g Proced			
	UPS and Energy Saving	 Step 1 The inverter should be turned off while resetting, input batteries should be connected. AC main can either be connected or disconnected, 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 						
First Level	Mode Selection		mode is the one you need. (Factory setting: UPS mode)					
			LED Status	UPS M	lode En	ergy Savin	g Mode	
			On	0		•		• Light
			Bat Low Saving	¥ ¥		¥ ¥		O Dark ¥ Flashing
		Step 4	The LED will chang then release.		pressing the	•	ton for 1 s	-
Second Level	Output Voltage and Frequency Adjustment	Step 2	seconds and the ir released and you of Please refer to tab voltage / frequence (Factory setting: 2 Mode LED Status On 50Hz Bat Low Saving On 60Hz Bat Low Saving The LED will change then release.	verter will s an go on to e below and y is the one 30VAC/50H 100VAC (200VAC) 0 0 0 × 0 0	end out a ' the second check the you need z or 110VA (220VAC) 0 0 0 0 0 0	Beep" sound d section of LED status r C / 60Hz) 115VAC (230VAC) \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet	d. The but "voltage / to see if th 120VAC (240VAC 0 0 4 0 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0	 ton can be frequency". output Light O Dark Flashing
Third Level	Saving Mode Selection	Step 1 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 ON OFF On ¥ ¥						
			Bat Low		*	*		O Dark
			Saving The LED will chang then release. Press the setting b "Beep" sound, the The inverter will a	utton for 5 outton can l	seconds an pe released	d the inverte and all the	ton for 1 sen er will sen setting are	d out a finished.
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 <u>http://www.meanwell.com/product/inverter/inverter01.html</u>								

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Comparison of UPS and Energy Saving Mode

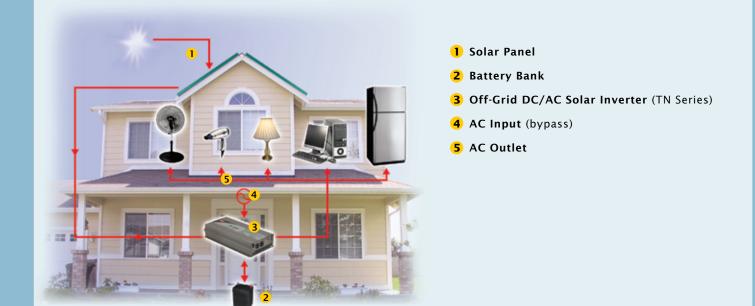


Operation Mode	Description & Special Feature	Possible Application			
UPS mode	Utility has the highest priority, the TN unit will operate as an UPS system. Utility bypass load (user's equipment) back-up battery bank Inverter back-up load (user's equipment) • Area with unstable utility • Better performance 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. 			

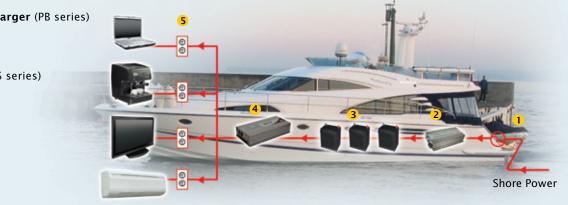
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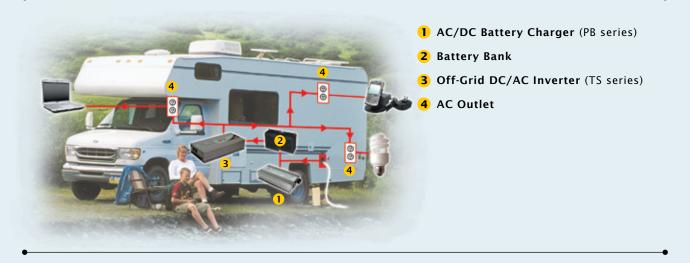
- Modified sine wave inverter is a stepped waveform that is designed to have characteristics similar to the sine wave shape of utility power. It is suitable for most household applications, such as notebook, PC, MP3 player, cell phone charger, and digital camera...etc. but may present certain compromises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





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





Applications:

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