



Universal-Power Solar Inverter

Suzhou, 215100, China

UNIVPO (China) No.223 Songshan Rd., SND,

150W-600W ELF SERIES Pure/Modified Sine Wave Inverter

150W-600W ELF Series Inverters include 150W & 300W pure sine wave inverter, and 300W,500W & 600W modified sine wave inverters, they are with unique attractive arc appearance which are completely designed by our R & D team.

- Plastic Arc Housing with streamline shape
- Low battery alarm
- Low battery shut down
- High voltage shut down

- Overload protection
- Output short -circuit protection
- Reverse Porlarity Protection
- 1X1A and 1X2A 5V USB
- LED indicator showing power status and fault
- Soft Start
- DC/AC Isolated
- CE Approval

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>>> Product Specifications

Continuous Output Power (Watts) Peak Output Power (Watts) Nominal Input Voltage (DC) Nominal Output Voltage (AC) Frequency Output Waveform Efficiency Thermal Protection Battery Polarity Reverse Protection Overload Protection Output Short Circuit Protection With Cooling Fan Optional AC Socket	30 60 12V (10 ure Sine Wave	00 0-15V)	300 600 30V, (Regulation: 59 50Hz / 60Hz 85-90% 65°C+/-5°C	500 1000 12V (10-15V) o %~10%) Modified Sine Wave						
Nominal Input Voltage (DC) Nominal Output Voltage (AC) Frequency Output Waveform Efficiency Thermal Protection Battery Polarity Reverse Protection Overload Protection Output Short Circuit Protection With Cooling Fan	12V (10	0-15V)	30V, (Regulation: 59 50Hz / 60Hz 85-90%	12V (10-15V) o %~10%)	r 24V (21-30V)					
Nominal Output Voltage (AC) Frequency Output Waveform Pt Efficiency Thermal Protection Battery Polarity Reverse Protection Overload Protection Output Short Circuit Protection With Cooling Fan			50Hz / 60Hz 85-90%	%~10%)						
Frequency Output Waveform Pt Efficiency Thermal Protection Battery Polarity Reverse Protection Overload Protection Output Short Circuit Protection With Cooling Fan	ure Sine Wave	115V / 23	50Hz / 60Hz 85-90%							
Output Waveform Efficiency Thermal Protection Battery Polarity Reverse Protection Overload Protection Output Short Circuit Protection With Cooling Fan	ure Sine Wave		85-90%	Modified Sine Wave						
Efficiency Thermal Protection Battery Polarity Reverse Protection Overload Protection Output Short Circuit Protection With Cooling Fan	ure Sine Wave		85-90%	Modified Sine Wave						
Thermal Protection Battery Polarity Reverse Protection Overload Protection Output Short Circuit Protection With Cooling Fan										
Battery Polarity Reverse Protection Overload Protection Output Short Circuit Protection With Cooling Fan			65℃+/-5℃							
Overload Protection Output Short Circuit Protection With Cooling Fan		-	65℃+/-5℃							
Output Short Circuit Protection With Cooling Fan	By fuse									
With Cooling Fan	Shutdown & Red LED Light									
			Yes							
Ontional AC Socket		Automatic	c Temperature-Contr	olled Fan						
Optional 7 to cocket	U.S.A.	Type: 2AC	Outlets; European	Type: 1AC Outlet						
Product Dimension (CM)			28.5x13x8.5							
Net Weight (KGS/PC) 0.8	1.5	.5	1.0	1.2	1.2					
Quantity Per Master Carton (PCS)	12									
Size of Master Carton (CM)	65.5x35.5x39.5									











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180W-5KWPure Sine Wave Inverter

UNIV-P pure sine wave inverters series are used to operate sensitive electronic devices that require high quality waveform with little harmonic distortion. In addition, they have high surge capacity which means they are able to exceed their rated wattage for a limited time. This enables power motors to start easily which can draw up to seven times their rated wattage during startup. Virtually any electronic device will operate with the output from a pure sine wave inverter.

- High frequency design
- Max efficiency up to 90%
- 2 times high surge power for motor rated application
- Soft-start to reduce inhush current
- Full protection:
 Input protection:
 Reverse polarity / Over voltage /
 Low battery alarm and shutdown
 Output protection:
 Short circuit / Overload / Over temperature
- Ideal for powering inductive loads such as motor, and other sensitive loads, medical equipment and solar systems.

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>>> Product Specifications

MODEL	UNIV- 180P	UNIV- 300P	UNIV- 600P	UNIV- 1000P	UNIV- 1500P	UNIV- 2000P	UNIV- 3000P	UNIV- 5000P		
Output Power (Continuous Watts)	180	300	600	1000	1500	2000	3000	5000		
Output Power (Peak Watts)	360	600	1200	2000	3000	4000	6000	10000		
Nominal Input Voltage (DC)		12V(11-15V) / 24V(21-30V) / 48V(42-60V)								
Nominal Ouput Voltage (AC)		115V AC / 230V AC, (regulation: 5%~10%)								
Frequency		50Hz or 60Hz								
Output Waveform		Pure Sine Wave (THD<3%)								
Low Battery Alarm (V)		10.8+/-0.5(12V); 21.8+/-1(24V); 43.6+/-2(48V)								
Low Battery Shutdown (V)		10.6+/-0.5(12V); 21+/-1(24V); 42+/-2(48V)								
Over Voltage Shutdown (V)		15.5+/-0.5(12V); 31+/-1(24V); 60+/-2(48V)								
Efficiency		85~90%								
Battery Polarity Reverse		By Fuse								
Thermal Protection		65°C±5°C								
Overload Protection				Shutdown & I	Red LED light					
Output Short Circuit Protection				Output Short C	ircuit Protection	l				
With Cooling Fan			Auto	-operation fan (temperature or	load)				
AC Output	1AC Outlet		Type: 2AC Ou ean Type: 1AC			S.A. Type: 4 AC AC Outlet, AC				
Product Dimension (LxWxH)(mm)	170X80X58	150X150X53	250X150X72	290X150X72	370X150X88	410X210X100	480X210X130	560X210X160		
N.W. (kgs)	0.45	1.2	2	3	4	7.5	12	17		
QTY (pcs)	20	8	4	4	4	2		1		
Carton Size (mm)	420X400X360	400X350X270	410X360X250	450X410X250	490X401X290	590X310X410	750X330X250	810X310X250		
Container 20FT (pcs)	9,240	5,920	3,032	2,476	1,920	746	481	446		









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1KW-6KW

Low Frequency Pure Sine Wave Inverter/Charger

UNIV-KP-L inverter is a combination of an inverter, battery charger and AC auto-transfer switch, which is with a conversion efficiency of 88%. It features power factor corrected, sophisticated multi-stage charging and pure sine wave output with unprecedentedly high surge capability to meet demanding power needs of inductive loads without endangering the equipment.

- Low frequency design
- Environmentally friendly quiet reliable AC power
- Heavy-duty good loading ability
- True sine wave output

- Full protections
- With battery charge and bypass function
- Power the whole off grid solar systems in your house
- Automatic switch between battery and AC grid power
- Ideal for powering inductive loads such as motor, and other sensitive loads, medical equipment and solar systems.

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Product Specifications

ITEM	UNIV-1KP-L	UNIV-1KP-L UNIV-1.5KP-L UNIV-2KP-L UNIV-3KP-L UNIV-4KP-L UN										
MODEL		5 1111 110111			J		UNIV-6KP-L					
Power(W)	1000	1500	2000	3000	4000	5000	6000					
AC Input												
Phase & waveform			Sin	gle Phase & Sine W	ave							
Voltage			100V AC / 120V	AC / 220V AC / 230	V AC / 240V AC							
Acceptable Voltage			194~243V <i>A</i>	AC / 164~243V AC (wide mode)							
Frequency		50Hz or 60Hz (auto sensing)										
Output												
Phase & waveform		Single Phase & Sine Wave (bypass mode sync to input)										
Voltage		100V DC / 120V DC / 220V DC / 230V DC / 240V DC (same as input on bypass mode)										
Voltage Regulation		±10% RMS (bypass mode sync to input)										
Frequency		50Hz or 60Hz(auto sensing)										
Crest Power		3 times of ratings										
Short Circuit Protection	Shutdown after 10 minutes											
Power Factor	0.9-1.0											
DC Input												
Battery Voltage	12V	//24V	12V / 2	24V / 48V		24V / 48V						
Max Charging Current				20A~75A								
Over Charge Voltage			15. 7V for 12V,	31. 4V for 24V, 6	2. 8V for 48V							
Transfer Efficiency												
Line Mode				>95%								
Battery Mode				>85%								
Power Saver		Available when the load is less than 50 watts										
Enviromental												
Operating Environment			0-40°C, 0-	95% RH (non-con	densing)							
N.W. (kgs)	20	20	20	22	35	38	40					
Dimension, DxWxH (mm)		460x22	20x190			635x222x190						









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150W-3KW Modified Sine Wave Inverter

UNIV-M modified sine wave inverters series (modified square wave or step wave) approximate a pure sine waveform. Modified sine wave inverters are designed to satisfy the efficiency requirements of the photovoltaic system while being less expensive than pure sine waveform inverters. These inverters are capable of operating a wide variety of loads; electronic and household items including but not limited to TV, VCR, and satellite receiver, computers, and printers.

- High frequency design
- Max efficiency up to 90%
- Full protection:
 Input protection:
 Reverse polarity / Over voltage / Battery
 low alarm and shutdown
 Output protection:
 Short circuit / Overload / Over temperature
- Ideal for powering simple office equipments, household appliances, portable electronics and loads from your car, truck, boat, RV etc.

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>>> Product Specifications

ITEM	UNIV-	UNIV-	UNIV-	UNIV-	UNIV-	UNIV-	UNIV-	UNIV-	UNIV-	UNIV-
MODEL	150M	200M	300M	500M	600M	800M	1000M	1500M	2000M	3000M
Output Power (Continuous Watts)	150	200	300	500	600	800	1000	1500	2000	3000
Output Power (Peak Watts)	300	400	600	1000	1200	1600	2000	3000	4000	6000
Nominal Input Voltage (DC)		12V (10-15V) / 24V(21-30V) / 48V(42-60V)								
Nominal Ouput Voltage (AC)		115V AC / 230V AC, (regulation: 5%~10%)								
Frequency		50Hz or 60Hz								
Output Waveform		Modified Sine Wave								
Efficiency		85~90%								
Battery Polarity Reverse		By Fuse								
Thermal Protection		65°C±5°C								
Overload Protection				SI	hutdown &	Red LED lig	jht			
Output Short Circuit Protection				Out	put Short C	ircuit Prote	ction			
Cooling Fan				Auto-ope	eration fan (temperatur	e or load)			
AC Output	1AC Outlet U.S.A. Type: 2AC Outlets / European Type: 1AC Outlet				Outlet	European	rpe: 4 AC Outlets Type: 2 AC Outle ire terminal block			
Product Dimension (LxWxH)(cm)	10x64x3.8	11x7x4. 6	15x94x5.4	18x94x5.5	18x94x5.5	23.5x94x5.4	26x12x7.0	41x16.5x6.5	29x16.5x12.9	41x16.5x12.9
N.W. (kgs)	0.35	0.4	0.7	1.0	1.0	1.2	2.0	3.0	3.8	5.5
QTY (pcs)	80	80	40	20	20	14	10	6	2	2
Carton Size (cm)	48.5x42x66	48.5x42x66	61x42x56.5	64x27x56	64x27x56	40.5x29.5x43	41x30x43	46.5x21.5x12.5	46.5x23.5x20	53x25x42.5











600W-2KW Modified Sine Wave Inverter / Charger

UNIV-MC Inverter/Charger is a combination of a MSW inverter, battery charger into one complete system. It transfers the DC power into AC power for appliance work, and it charges battery from the incoming AC power. It is designed for convenient wall mounting.

- High frequency design
- Max efficiency up to 90%
- LED indicators showing power, fault and charging status
- Three-stage battery charger (manually operated)
- Full protection:
 Reverse polarity / Over voltage /
 Battery low alarm and shutdown
- Ideal for powering simple office equipments, household appliances, portable electronics and loads from your car, truck, boat, RV etc.





Product Specifications

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	MODEL	UNIV-600MC	UNIV-1000MC	UNIV-2000MC					
	Output Power (Continuous Watts)	600	1000	2000					
	Output Power (Peak Watts)	1200	2000	4000					
	DC Input Voltage (Rated)	12V (11-15V)							
	AC Output Voltage	115V AC / 230V AC, (regulation: 5%~10%)							
	Output Frequency		50Hz or 60Hz						
Œ	Output Waveform		Modified Sine Wave						
RTE	Efficiency		83-87%						
Ж.	Battery Polarity Reverse	By Fuse							
NVE	Thernal Protection	65°C±5°C							
\geq	Overload Protection	Shutdown & red LED light							
	Cooling Fan Auto-operation fan (temperature or load)								
	Ideal battery size (12V Charger)	50~130Ah 100~							
	Rated Input Voltage	230V AC/110V AC							
	Input Frequency	50Hz or 60Hz							
	Rated Output (12V Charger)	12V I	12V DC, 15A						
Œ	Type	3 Stage Autmatic							
GE	Charge Control (12V Charger)	Bulk 5A / 8A / 10A / 15A (up to 14.7V) / Absorption 14.4V / Float 13.8V							
α	Battery Type	Fo	or Charging 12V lead acid batteries of	only					
HA	Product Dimension (LxWxH)(mm)	282X170X64	355X165X66	250X150X125					
O	Weight (kgs)	1.8	2.4	4.5					
	Carton Size (mm)	440X360X675, 10pcs	455X435X400, 6pcs	420X215X172, 4pcs					

Certificates CE ROHS LEC ISO









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1KW-6KWLow Frequency Solar Hybrid Inverter

UNIV-PSC-L Solar Hybrid Inverter is a combination of UNIV-PC-L inverter and solar charge regulator. It makes your solar system simple in wiring, with all the unique features from the inverter and solar regulator, it brings you long term trouble free operation beyond your expectation.

- Off-grid inverter (pure sine) +Battery charger+ MPPT Solar charge controller
- Connect directly to solar panel
- Charge the battery via AC grid power or solar panel
- Wide stabilizing AC range
- Full protections
- 3-step intelligent battery charging
- Battery / AC grid power priority switch available for off grid solar system
- Ideal for powering AC and DC appliance in home, office, boat or industry place
- Mainly for the solar power system





Product Specifications

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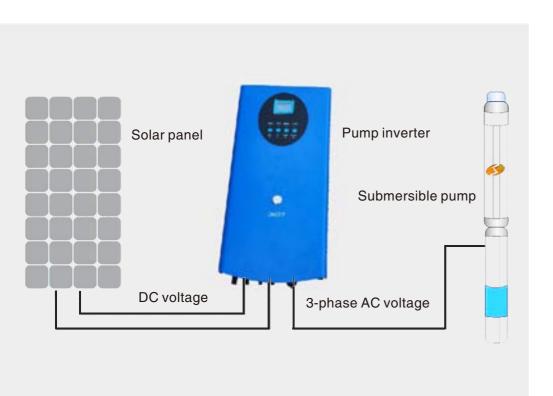
MODEL		UNIV- 1000PSC-L	UNIV- 1500PSC-L	UNIV- 2000PSC-L	UNIV- 3000PSC-L	UNIV- 4000PSC-L	UNIV- 5000PSC-L	UNIV- 6000PSC-L			
Continuous power (W)		1000	1500	2000	3000	4000	5000	6000			
	Surge Rating (W)	3000	4500	6000	9000	12000	15000	18000			
Output	Output waveform	Pure Sine Wave / same as input (bypass mode)									
(Inverter Mode)	Nominal Output Voltage	100-110-120V AC / 220-230-240V AC									
	Output Frequency			50Hz ±	0.3Hz/60Hz	± 0.3Hz					
	THD				<10%						
DC Innut	Nomina Input Voltagel	12V /	24V DC	12V / 24V	' / 48V DC		24V / 48V DC				
DC Input	Idle Consumption Search Mode			<25W v	vhen power sa	aver on					
	Input Voltage Range	Wi	de: 90~135V	AC / 164~243\	/ AC; Narraw:	v: 100~135VAC / 194~243V AC					
AC Charger	Output Voltage	Depends on battery type									
	Max Charge Rate		3	35A / 70-90A N	lax (charger c	urrent control)	rrent control)				
	Input Voltage Waveform	Sine Wave (grid or generator)									
	Nominal Input Frequency	50Hz or 60Hz (auto detect)									
Bypass & Protection	Nominal Voltage	120VAC / 230VAC									
Trotection	Max Bypass Current		30A			40A					
	Bypass over Load Current		35A: ala	arm	45A: alarm						
	Rated Voltage				12V/24V/48V						
Solar	Rated Charge Current			40A (60 <i>A</i>	A,optional for 1	2V /24V)					
Charge Controller	Rated Output Current				15A						
	Self Consumption				<10mA						
	Inverter Dimensions (LxWxH)		598x218x	179mm			470x190x340	mm			
	N.W. (kgs)	21kgs	22kgs	23kgs	27kgs	38kgs	39kgs	40kgs			
Mechanical Data	Shipping Dimensions (LxWxH)		740x315	k300mm			590x330x47	5mm			
Data	G.W. (kgs)	23kgs	24kgs	25kgs	29kgs	40kgs	41kgs	42kgs			
	Display		Status LEDs / Status LEDs+LCD								











750W-100KW Solar Combiner Pump Inverter with Junction Box

UNIV-PP3-C solar pump inverter converts solar array power from DC into AC to drive the pump. The solar pump system consists of pump, solar panels and inverter. With the function of MPPT (maximum power point tracking), the inverter regulates the output frequency according to irradiation in real time to achieve the maximum power. It is widely used for daily life(ground water), agricultural irrigation, forest, desert control, livestock irrigation, wastewater treatment and so on.

- Designed with VFD
- Optimizes pure sine wave PWM control
- Combined pump inverter and junction box.
- Dynamic maximum power point tracking (MPPT)
- Fast response and easy operation
- Low installation and maintenance costs
- Reduce the energy storing devices
- IP65 anti-dust and water-proof
- Adjustable speed range of pump based on the actual situation of the system.
- Available option of water-level detecting and control circuit.
- Full protection:
 Lightning, over / low input
 voltage, over current and over
 load protection, etc.
- Easy to installation, simple connection





>>> Product Specifications

MODEL	UNIV-7.5PP3-C	UNIV-15PP3-C	UNIV-22PP3-C	UNIV-37PP3-C	UNIV-55PP3-C	UNIV-75PP3-C	UNIV-11KPP3-C	UNIV-15KPP3-C				
Solar Pumping Inverter Power (W)	750	1500	2200	3700	5500	7500	11K	15K				
Recommend Pump Power(W)	370~550	750~1100	1500	2200~3000	3700~4500	5500~6000	7500~9200	11K				
Recommend Pump Power(HP)	0.5~0.75	1~1.5	2	3~4	5~6	7.5~8	10~12.5	15~18.5				
Input Volt	PV Open Volt:450-750VDC or AC input:Three-phase AC 380V (Optional)											
Recommended MPPT Volt (V)		480~600V DC										
Recommend Power of Solar Panel (Wp)	600~825	1125~1650	2250	3300~4500	5650~6750	8250~9000	11250~13800	16.5K~19.5K				
Output Frequency		50Hz / 60Hz										

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MODEL	UNIV-18KPP3-C	UNIV-22KPP3-C	UNIV-30KPP3-C	UNIV-37KPP3-C	UNIV-45KPP3-C	UNIV-55KPP3-C	UNIV-75KPP3-C	UNIV-100KPP3-C			
Solar Pumping Inverter Power (W)	18K	22K	30K	37K	45K	55K	75K	100K			
Recommend Pump Power(W)	15K	18.5K	22K~26K	30K	37K	45	55K~65K	75K~93K			
Recommend Pump Power(HP)	20	25	30~35	40	50	60	73~86	100~124			
Input Volt	PV Open Volt:450-750VDC or AC input:Three-phase AC 380V (Optional)										
Recommended MPPT Volt (V)		480~600V DC									
Recommend Power of Solar Panel (Wp)	22.5K	27.8K	33K~39K	45K	56K	68K	83K~98K	113K~140K			
Output Frequency		50Hz / 60Hz									

