

# PURE SINE WAVE INVERTER-CHARGER (ARM-LU SERIES)

LCD DISPLAY

LOW FREQUENCY

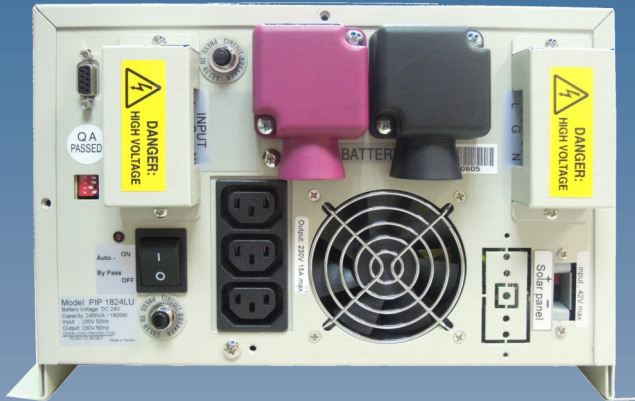
PURE SINE WAVE

AC CHARGER

WIDE AVR

HIGH SURGE

USB / RS232



ARM-LU SERIES      612      912      1224      1824      2436      3048

INPUT SPECIFICATION						
Nominal Voltage	100~120VAC / 200~240VAC Selectable (specify upon order)					200~240VAC only
Voltage Range	70~155VAC / 140~310VAC					140~310VAC
Input Frequency	47Hz ~ 65Hz, 50/60Hz auto-sensing					
Efficiency (Normal mode)	0.97					
Noise Filtering	Full time EMI/RFI filtering					
AC Overcurrent	Circuit Breaker (110V only); AC fuse (220V)		Resettable Circuit Breaker (110V or 220V)			
DC Input Nominal Voltage	12V	24V	36V	48V		
Battery Type	Lead Acid only					
Battery Charging method	Pulse Charging - Quick Charging + Trickle Charging (90% full)					
Battery Charging Current	20A	30A	25A	35A	30A	30A
Battery Charging Voltage	Quick Charge 14V, Trickle Charge 13.5V (adjustable)					
Battery Protections	Auto Failure Detection, Overcurrent, Overcharging, and Thermal protections (>45°C)					
OUTPUT SPECIFICATION						
Continuous Output	600W	900W	1200W	1800W	2400W	3000W
Surge Output	Up to 2.5 times max		Up to 3 times max			
Output Voltage	100~120VAC / 200~240VAC Selectable (specify upon order)					200~240VAC only
Voltage Waveform	Pure Sine Wave					
Output Frequency	Auto Select 50/60Hz, 47~55Hz for 50Hz / 56~65Hz for 60Hz					
Output Regulation	±10% of nominal voltage / ±3% of selected output voltage (in battery mode)					
Transfer Time	Blackout ~3ms, Brownout ~1ms, Battery->AC mode ~1ms					
Overload Alarm/Shutdown	Alarm: 100~120%, Shutdown: 120~190% (adjustable)					
SOLAR CHARGER (OPTIONAL)						
DC Input Range	12V: 12~35V	24V: 24~42V	36V: 36~63V	48V: 48~84V		
Charging Method	Constant Voltage PWM Charging, Flexible Current					
Charging Voltage	13.5V	27.0V	40.5V	54V		
Maximum Current	37A		25A	18.5A		
Protections	Input Reverse Polarity, Input Short Circuit, Output Over-Current					
COMMUNICATION						
Standard Interface port	RS232 / USB (UpSilon2000 compatible software optional)					
Control Panel	LCD					
Audible Alarm	Low Battery, Battery Overvoltage, Overload, Short Circuit, Over-temperature					
Green Power Mode	Auto Shut-Off of Loads During Blackouts; 1~14% of Full Load adjustable (AC mode only)					
Cooling Fan Control	Varying Speeds, Temperature and Operational Mode Control					
ENVIRONMENTAL / MECHANICAL SPECIFICATION						
Operating Temperature	0 to 40°C, up to 1500m					
Transit/Storage Temp.	-15 to 55°C					
Relative Humidity	5 - 95% RH Non-Condensing					
Operating Altitude	Up to 3000 meters					
Quality Control	CE / ISO9001					
Dimensions: (DxHxW)	120*250*370mm		200*410*300mm			
Net / Shipping Weight	10/11Kg	13/14Kg	15/16Kg	26/28Kg	34/36Kg	41/43Kg

## KEY FEATURES

- Transformer low frequency durable design
- Pure sine wave output
- Ultra high surge capability up to 3X
- LCD monitor display system info
- Adjustable parameters, including voltage transfer points, and charging voltage, and many more.
- Wide input range from 70~155VAC or 140~310VAC
- Smart AVR (buck + boost)
- System can operate like a UPS (AC-mode) or inverter (battery mode)
- Built-in alarms and protections
- Intelligent battery charging control
- Thermal control cooling fan
- (Optional) built-in solar charger up to 1000w
- Compatibility with wide range of loads
- Transfer time as short as 1ms
- RS232/USB communication terminals (software optional)

\*Product specifications are subject to change without prior notice. ARM Solar is a registered trademark of ARM Solar Inc.

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