

andefia

Hong Kong
Andefia International Limited
 11/F AXA CENTRE 151 GLOUCESTER ROAD WAN CHAI HONG KONG

China Mainland:
Andefia Electric Appliance Industry Limited
 P.O. Box 528427, No.222 Dongfu Third Road, Dongfeng Town, Zhongshan
 City, Guangdong Province, China
 Tel: +86-760-22607171 Fax: +86-760-22607123
 Email: info@andefia.com
 Http://www.andefia.com



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OUR MISSION
 Simply stated our mission is: To develop and promote environmentally-friendly and highly energy efficient **Power Products**.
 Scientific and technology will be the best support of our mission.

OUR COMMITMENT
 Profit from these projects will be the support fund of a hope school network in the west China form 2018.

OUR VALUES
 Thanksgiving, Curiosity, Preciseness, Innovative Thinking.

Thanksgiving
 Without the heart of thanksgiving, the word will be in chaos. It is the only principle base of our company.

Curiosity
 Without curiosity, child will never ever grow up. It is the source of development.

Preciseness
 Without preciseness, sparkle will never ever become fire and idea will never ever become a mature product. It is our Code of Conduct.

Innovative Thinking
 Without Innovative Thinking, we will become old and lazy. It is the Panacea of young forever.

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BRIEF INTRODUCTION

ANDEFIA is now a leading manufacturer and exporter of power products in China. Annual Production exceeded 80,000 units in 2008 and our products are selling well in both our domestic market and 30 other countries including Japan, South Korea, Europe, South America, Africa, and the Middle East.

The Andefia factory is located in the Pearl River delta within the golden economic centre of Southern China. Our factory has a total floor space of over 6,000 square meters and about 220 employees, including 11 engineers and technical personnel. With excellent capabilities for large-scale production, we mainly produce various types of clean power source products. At present, our output capacity stands at 60,000 pcs of UPS, 80,000 pcs of AVR's and 30,000 inverters. Annually valued at roughly USD8,800,000. Our past product success has been attributable to our high product quality, stylish appearance, and reasonable pricing.

Our company has established a comprehensive quality control system with all processing strictly conforming to international standards. Our main products meet a variety of international standards including ISO9001, ETL, FCC, SAA, CE, EMC, etc. Additionally, our company subscribes to the principle of "First class quality at reasonable prices" thus we are able to offer our customers high-quality products and premium service.

Looking into the future, our company envisions continued product improvement, style enhancement, and expansion of our product lines to accommodate future customers' needs. Our factory can provide design modifications to meet specific customer needs as well as complete OEM and ODM orders. The staffs and employees of our expanding company continue to work hard to make Andefia a world-famous brand to satisfy growing worldwide customer demand.



Sensitive intelligent overload protection

On battery mode, overload less than 120%, UPS will give warning (beeping) for 10 seconds, after 10 seconds, UPS will switch off inverter to avoid damage to the UPS; on Normal mode, overload will activate the beeping warning under loading is reduced to normal range.

Optional LED or LCD Human-Machine Interface

Simplified LED display or advanced LCD display. For LCD display, input/output voltage and frequency, output current can be shown on the screen.

Shorter transfer time

Less than 5ms, make sure your IT applications work smoothly.

Self-diagnostic function

Individual AVR function
Built-in individual AVR circuit, even UPS function turn off, UPS can work as an Automatic Voltage Regulator.

Individual charger

When main power comes back, battery will be recharged automatically even UPS was shut off.

Full battery protection

Accurate charging and discharging current monitor and control, intelligent battery auto-repair function, extend battery lifespan.

Computer interface, SNMP adapter (optional)

RS232+advance software can give real time control, SNMP adapter realize remote control to the UPS (optional)

Model	HT350VA	HT650VA	HT1000VA	HT1500VA	HT2000VA	HT3000VA	HT5000VA
CAPACITY	280W	520W	800W	1200W	1600W	2400W	4000W
Input voltage	115-275Vac			140-275Vac			
Input frequency	60/50Hz±5Hz						
Inverter output voltage	220Vac±1%						
Regulator out voltage	220Vac±8%						
Out frequency	50Hz±1%						
Out Wave form	Pure Sine Wave						
Wave distortion	≤3%						
Transfer time	≤5ms						
Output protection	Overload, short circuit, output low-voltage, output high-voltage protection						
Battery protection	Over charge and over discharge protection						
Battery voltage	12V (External battery)		24V (External battery)		48V (External battery)		
Computer interface	RS232+intelligent software						
HM interface	LED/LCD (optional)						
Network interface	SNMP(Optional)						
Physical Size (D*W*H) mm	390*150*225			500*260*300			



Transformer Base Pure Sine Wave UPS with Individual AVR Function HT series

HT series UPS integrated with latest on-line and communication technology, giving a perfect power solution for your restrict requirements, CPU control and PWM technology, making our UPS a reliable pure sine wave power hub, suitable for all type of inductive/resistive or complex loading. Higher efficiency and better protection, you can control the UPS by computer interface or SNMP adaptor.

And more important is HT series UPS has an individual AVR inside, you don't need to turn on the UPS and it will work like an AVR, with wider input range and higher precision!

CPU control

CPU control, built-in intelligent software offers high precision output.

PWM technology, Pure Sine Wave output

Pure sine wave output, suitable for all types of loading includes resistive load, inductive load, complex load...

Sensitive short circuit protection

When short circuit happens, UPS will shut down the inverter and giving warning.

Line-Interactive UPS with Bluetooth Technology L series



Special features:

1. Built-in individual charger, when city power is normal charger will recharge battery automatically even UPS was shut down.
2. Frequency synchronizes with city power, give a much better performance than other line interactive UPS.
3. Bluetooth technology for communication.
4. Extremely stable output voltage even battery is extremely low.

Specifications:

1. 3 colors LED display
2. High speed CPU control (Motorola 44 pins)
3. Large loading capacity and compatibility
4. Intelligent UPS management software (RS-232 and bluetooth adaptor optional)
5. Wide input voltage range with AVR function
6. Overload and output short circuit protection
7. Over charge & over discharge protection
8. Smart Audible & 3 colors LED alarms
9. Fax / modem / telephone protection port (optional)
10. Built-in power purifying circuit minimizes distortion caused by lightning, pulse and miscellaneous waves, etc.
11. Individual charger
12. Cold-start function

Primary technical parameters:

1. Rated voltage: AC 110V/120V/220V/230V/240V version optional
2. Rated frequency: 50 / 60Hz
3. Input range: AC 165V - 275V
4. Transfer time: ≤5ms
5. Back-up time: over 15 minutes (Half load)
6. Charge time: ≤8 hours
7. Operating temperature: -5°C ~ 40°C
8. Operating humidity: 10% - 90% relative humidity, non-condensing
9. Audio noise: < 40dB
10. Lighting protection: IEEE-587A



Model	Power	Battery Type SLA battery	Carton Meas.			Qty/ CTN	G.W (KGS)	Qty/20' (PCS)
			H	X	W			
L-500	300W	1 x 12V / 7Ah	520	400	255	4	29.00	2,300
L-650	390W	1 x 12V / 7Ah	520	400	255	4	29.00	2,300
L-1000	600W	2 x 12V / 7Ah	360	340	295	2	27.00	1,694
L-1200	720W	2 x 12V / 7Ah	360	340	295	2	27.00	1,694
L-1500	900W	2 x 12V / 9Ah	268	205	340	1	17.00	1,490

Line-Interactive UPS with Bluetooth Technology D series



Special features:

1. Built-in individual charger, when city power is normal charger will recharge battery automatically even UPS was shut down.
2. Frequency synchronizes with city power, give a much better performance than other line interactive UPS.
3. Bluetooth technology for communication.
4. Extremely stable output voltage even battery is extremely low.

Specifications:

1. LCD display
2. High speed CPU control (Motorola 44 pins)
3. Large loading capacity and compatibility
4. Intelligent UPS management software (RS-232 and bluetooth adaptor optional)
5. Wide input voltage range with AVR function
6. Overload and output short circuit protection
7. Over charge & over discharge protection
8. Smart Audible & 3 colors LED alarms
9. Fax / modem / telephone protection port (optional)
10. Built-in power purifying circuit minimizes distortion caused by lightning, pulse and miscellaneous waves, etc.
11. Individual charger
12. Cold-start function

Primary technical parameters:

1. Rated voltage: AC 110V/120V/220V/230V/240V version optional
2. Rated frequency: 50 / 60Hz
3. Input range: AC 165V - 275V
4. Transfer time: $58ms$
5. Back-up time: over 15 minutes (Half load)
6. Charge time: 8 hours
7. Operating temperature: $-5^{\circ}C \sim 40^{\circ}C$
8. Operating humidity: 10% - 90% relative humidity, non-condensing
9. Audio noise: $< 40dB$
10. Lighting protection: IEEE-587A



Model	Power	Battery Type SLA battery	Carton Meas.				Qty/ CTN	G.W (KGS)	Qty/20' (PCS)
			H	X	W	X			
D-500	300W	1 x 12V / 7Ah	520	400	255	4	29.00	2,300	
D-650	390W	1 x 12V / 7Ah	520	400	255	4	29.00	2,300	
D-1000	600W	2 x 12V / 7Ah	360	340	295	2	27.00	1,694	
D-1200	720W	2 x 12V / 7Ah	360	340	295	2	27.00	1,694	
D-1600	900W	2 x 12V / 9Ah	268	205	340	1	17.00	1,490	

ATP series Mains Frequency On-line Pure Sine Wave UPS

Mains Frequency Technology

Built-in isolated transformer. Interference free, give a clean power with high overload performance.

True Online UPS, Double Conversion IGBT Technology

The Pure Sine Wave online UPS. With the latest double conversion IGBT technology, this UPS can offer the best clean power source for all type of applications.

LCD display Human-Machine Interface

All important parameters are showed on the screen such as UPS status, battery condition, input and output value, frequency value, loading percentage, etc.

20 KHz PWM Technology

20 KHz PWM circuit, Noises60dB.

Wide Input Range

25% tolerance of input voltage is permitted, under full load condition. Protect batteries from frequent switching to backup mode.

STS (Static Transfer Switch), Mechanical Failure Free

STS (Static Transfer Switch) is provided for output with zero interrupt in the event of outage. There should be less than 2 ms for switching to bypass in the event of UPS failure.

Overload Protection

Overloaded up to 125%, automatically switch to bypass after 60 seconds. Recovery after load corrected.

Short Circuit Protection

Built-in short circuit protection to prevent any unexpected damage.

Hot Standby Function

For genuinely redundant power protection. UPS can be installed in hot-standby mode, ready to take over the load automatically in the event of a critical component failure.

High-Temperature Protection

Built-in Temperature control to protect electronic component from high temperature.

Cold Start Function

Powerful startup circuit, cold start can be performed even in the battery mode.

Charging Current Adjustable

Charging current can be adjusted from 1A to 10A.

Advance Alarming System

Built-in advance alarming system, giving reminders to the users of the UPS status.

Computer Interface

RS232 communication +UPS monitor software.

Suitable for

- . Data management equipment and system
- . Automatic control systems
- . Hospital
- . Mini office system
- . Telecommunication systems
- . Bank



Model	ATP-4K	ATP-5 K	ATP-6 K	ATP-8 K	ATP-10 K	ATP-15 K
Capacity	4KVA 3.2KW	5KVA 4KW	6KVA 4.8KW	8KVA 6.4KW	10KVA 8KW	15KVA 12KW
AC input						
Voltage	Single phase 220VAC±25%					
Frequency	50 Hz or 60 Hz ± 5 Hz					
Power factor	0.8 (0.95 if equipped with filter)					
Output						
Efficiency	>95%					
Output voltage	Single phase 220VAC±15% (adjustable)					
Output frequency	Free synchronized to main (AC Power Mode); 50Hz±0.5%(Battery Mode)					
Voltage regulation	±2%					
Transient response	±4% (100%loading)					
Wave form	Pure sine wave					
Harmonic distortion	< 3 % of T.H.D. at linear load					
Power factor	0.8 (lagging)					
Overload capacity	120-150% for 60S, switch to bypass when load is more than 150%					
Crest factor	3:1					
Transfer time	0 ms (AC to DC or DC to AC); < 4 ms (Bypass to Inverter or Inverter to Bypass)					

Battery & Charger	
Type & Placement	Maintenance Free Dry Type Battery, Internal or External Regarding to Demand
DC Voltage	192VDC
Charge Current	1-10A adjustable
Recharge Time	About 8 hours to 90% after fully discharged
Protection	Battery low cut-off without draining any current
Capacity & Quantity	12 V 7 Ah x 29 pieces/ 12 V 7 Ah x 32 pieces
Nominal/Charge Voltage (DC)	13.85VDC
Float Charging Current	13.7VDC (per cell)
End Of Discharge Voltage	10.5VDC (per cell)
Recharge Time	From the end of back-up time to 80% of the total charge 3 to 4 hours depending on the power of the device (depending on type of batteries)
Protections	
Protection	Over Voltage, Under Voltage, Over Load, Over Temperature, Short Circuit, Lightning Stroke etc.
EMI filter	10KHz-100KHz at 40dB, 100KHz-100MHz at 70dB
Display & Audible Alarms	
LED display	Utility input, bypass, inverter, low battery, overload
LCD display	Input/output/battery voltage, input/output frequency, load capacity, UPS status
Mains failed	Keep 90 seconds at a time interval of 4 seconds
Battery low	1 second per time(auto shutdown upon complete discharge of battery and auto turn-on upon recovery of utility power)
Overload	Continuous alarming (keep 60 seconds then switch to bypass, auto recovery upon removing of load)
Malfunction	Continuous alarming
Interface	
Communications	RS485/RS422, Optional SNMP
Software	Free of Charge, Network Supported Monitoring & Control Software, Software Supports Windows 98/ME/NT/2000/XP/2003, Linux, Sun Solaris 7/8/9, IBM Aix 4.3 & 5.1x, HP-UX 11 x, Compaq True 64, SGI Irix, Free BSD, Unix Systems, MAC Supported
Physical	
Size (mm)(W*H*D)	700*260*580
Weight	110Kgs
Operate temperature	0°C-40°C
Humidity	20%-90% non-condensing
Audio noise	<58dB at 1 meter distance
N.W. (Kgs)	60 65 75 78 82 95

ACP series Mains Frequency On-line Pure Sine Wave UPS

Mains Frequency Technology

Built-in isolated transformer. Interference free, give a clean power with high overload performance.

True Online UPS, Double Conversion IGBT Technology

The Pure Sine Wave online UPS. With the latest double conversion IGBT technology, this UPS can offer the best clean power source for all type of applications.

LCD display Human-Machine Interface

All important parameters are showed on the screen such as UPS status, battery condition, input and output value, frequency value, loading percentage, etc.

20 KHz PWM Technology

20 KHz PWM circuit, Noises60DB.

Wide Input Range

25% tolerance of input voltage is permitted, under full load condition. Protect batteries from frequent switching to backup mode.

STS (Static Transfer Switch), Mechanical Failure Free

STS (Static Transfer Switch) is provided for output with zero interrupt in the event of outage. There should be less than 2 ms for switching to bypass in the event of UPS failure.

Overload Protection

Overloaded up to 125%, automatically switch to bypass after 60 seconds. Recovery after load corrected.

Short Circuit Protection

Built-in short circuit protection to prevent any unexpected damage.

Hot Standby Function

For genuinely redundant power protection, UPS can be installed in hot-standby mode, ready to take over the load automatically in the event of a critical component failure.

High-Temperature Protection

Built-in Temperature control to protect electronic component from high temperature.

Cold Start Function

Powerful startup current, cold start can be performed even in the battery mode.

Charging Current Adjustable

Charging current can be adjusted from 1A to 10A.

Advances Alarming System

Built-in advance alarming system, giving reminders to the users of the UPS status.

Computer Interface

RS232 communication +UPS monitor software.

Suitable for

- Data management equipment and system
- Automatic control systems
- Hospital
- Mini office system
- Telecommunication systems
- Bank



Model	Capacity	Voltage of DC	Size(mm)	N.W.(Kgs)
Single Phase in Single Phase out				
ACP1K11	1000VA/800W	48V	525*170*390	18.5
ACP2K11	2000VA/1600W	96V	587*212*420	35
ACP3K11	3000VA/2400W			43
ACP4K11	4000VA/3200W	192V	580*230*580	52
ACP6K11	6000VA/4800W			65
ACP8K11	8000VA/6400W			70
ACP10K11	10000VA/8000W			80
ACP15K11	15000VA/12000W	192V	750*410*1100	210
ACP20K11	20000VA/16000W			250
ACP30K11	30000VA/24000W			280
Three Phase in Single Phase out				
ACP10K31	10000VA/8000W	192V	480*340*825	80
ACP15K31	15000VA/12000W			210
ACP20K31	20000VA/16000W		750*410*1100	250
ACP30K31	30000VA/24000W			280
AC input				
Voltage	Single phase :220VAC±15%; 3phase: 220/380VAC±25% (110/120V optional)			
Frequency	50 Hz or 60 Hz ± 5%			
Power factor	0.8 (0.95 if equipped with filter)			
Output				
Efficiency	≥95%			
Output voltage	Single phase 220VAC±5% (adjustable)			
Output frequency	Free synchronized to main (AC Power Mode); 50Hz±0.5%(Battery Mode)			
Voltage regulation	±1%			
Transient response	±4% (100%loading)			
Wave form	Pure sine wave			
Harmonic distortion	< 3 % of T.H.D. at linear load			
Power factor	0.8 (lagging)			
Overload capacity	120-150% for 60S, switch to bypass when load is more than 150%			
Crest factor	3:1			
Transfer time	0 ms (AC to DC or DC to AC); < 4 ms (Bypass to Inverter or Inverter to Bypass); Model 1Kva, 2Kva, 3Kva without bypass function			

Battery & Charger

Type & Placement	Maintenance Free Dry Type Battery, Internal or External Regarding to Demand
DC Voltage	192VDC
Charge Current	1-10A adjustable
Recharge Time	About 8 hours to 90% after fully discharged
Protection	Battery low cut-off without draining any current
Capacity & Quantity	12 V 7 Ah x 29 pieces/ 12 V 7 Ah x 32 pieces
Nominal/Charge Voltage (DC)	13.85VDC
Floot Charging Current	13.7VDC (per cell)
End Of Discharge Voltage	10.5VDC (per cell)
Recharge Time	From the end of back-up time to 80% of the total charge 3 to 4 hours depending on the power of the device (depending on type of batteries)

Protections

Protection	Over Voltage, Under Voltage, Over Load, Over Temperature, Short Circuit, Lightning Stroke etc.
EMI filter	10KHz-100KHz at 40dB, 100KHz-100MHz at 70dB

Display & Audible Alarms

LED display	Utility input; bypass; inverter; low battery; overload
LCD display	Input/output/battery voltage, input/output frequency, load capacity, UPS status
Mains failed	Keep 90 seconds at a time interval of 4 seconds
Battery low	1 second per time(auto shutdown upon complete discharge of battery and auto turn-on upon recovery of utility power)
Overload	Continuous alarming (keep 60 seconds then switch to bypass, auto recovery upon removing of load)
Malfunction	Continuous alarming

Interface

Communications	RS485/RS422, Optional SNMP
Software	Free of Charge, Network Supported Monitoring & Control Software. Software Supports Windows 98/ME/NT/2000/XP/2003, Linux, Sun Solaris 7/8/9, IBM Aix 4.3 & 5.1x, HP-UX 11 x, Compaq True 64, SGI Irix, Free BSD, Unix Systems, MAC Supported

Operation Environment

Operate temperature	0°C-40°C
Humidity	20%-90%non-condensing
Audio noise	<58dB at 1 meter distance



Three Phase Online UPS AJK series



Model	ATK-10K	ATK-20K	ATK-30K	ATK-40K	AT50K
Capacity (Val/Watt.)	10KVA/8KW	20KVA/16KW	30KVA/24KW	40KVA/32KW	50KVA/40KW
Model	ATK-60K	ATK-80K	ATK-120K	ATK-200K	ATK-240K
Capacity (Val/Watt.)	60KVA/48KW	80KVA/64KW	120KVA/96KW	200KVA/160KW	240KVA/192KW
Physical					
Size (D*W*H)	10Kva-40Kva --740mm*600mm*1650mm				
	50Kva-60Kva --800mm*830mm*1650mm				
	80Kva-120Kva --800mm*1250mm*1650mm				
	160Kva-240Kva --800mm*1660mm*1650mm				

Input - Rectifier	
Technology	Full-bridge SCR (silicon controlled rectifier)
Input Voltage	380 VAC, 3 Phase + Neutral
Voltage Tolerance	380/220V±15%
Frequency & Frequency Range	60/50Hz±5%
Start Delay	Loading from 0%-100%, 10-15 seconds (adjustable)
DC Continuous Wave Voltage	<2%
Efficiency	>98%
Battery & Charger	
Type & Placement	Maintenance Free Dry Type Battery, Internal or External Regarding to Demand
Capacity & Quantity	12 V 7 Ah x 29 pieces/ 12 V 7 Ah x 32 pieces
Nominal / Charge Voltage (DC)	348V
Float Charging Current	420V
End Of Discharge Voltage	296V
Current Adjustment	1.5-50Amp
Best Operation Environment Temperature	20°C-25°C (according to battery)
Battery Sharing Technology	Two UPS share one battery pack (operational) and battery self-diagnostic function
Recharge Time	From the end of back-up time to 80% of the total charge 3 to 4 hours depending on the power of the device (depending on type of batteries)
Output-Inverter	
Technology	Solid state IGBT SPWM
Output	3 Phase + Neutral 380/220V
DC Voltage Range	296V-420V
Power Factor	0.8-1 (Lag)
Dynamic Response	Maximum Deviation ≤ 5% at 50% - 100 - 50% Load Change
Correction Time	60ms to be with in ± 1% Static Tolerance at 0-100-0 % Load Change
Voltage Precision	±1%
Total Harmonic Distortion(THD)	≤ 3% at linear load, ≤ 7% at non linear load
Unbalanced Load 50%	120°±3° (±3%)
Over Load	20 minutes for 105-110%, 15 minutes for 125%, 1 minutes for 150%
Frequency & Frequency Range	50Hz or 60Hz±0.01% Battery Operation
Hold Range	5%
Slew Rate	± 1Hz/2ms
Efficiency	100% loading, above 92%

Static Bypass	
Technology	Solid static
Bypass Input	380±10%, 50/60Hz±5%(adjustable), Dual input power system (optional)
Transfer Time	<0ms
Adjustment	Bypass can be Disable or Enable to use in Standby Mode
LCD Display & Audible Alarms	
Type	Graphic LCD panel + LED indicators
Measurements	Start and shutdown guide /Status of Inverter/Batteries/ Bypass /Input voltage/ Battery voltage/ Output voltage of rectifier/ Output current of rectifier/ Loading Ratio/ Output frequency
LED Warnings	Inverter overload/ overload trig shut down/ DC over voltage trig shut down/ DC low voltage trig shut down/ high temperature/ Mains frequency out of range/ Phase-Locked failed/ UPS malfunction/ Mains input interrupted
Audible Alarms	Inverter current is too big, UPS pause/ Inverter overload/ DC current to Inverter is too big, UPS pause/ Mains interrupted/ Battery low voltage/ Mains voltage is too low/ Temperature is too high, UPS shutdown/ fuse burnt out/ Mains frequency out of range/ Battery exhausted/ phase-locked failed/ UPS malfunction
Interface	
Communications	RS485/RS422, Optional SNMP
Software	Free of Charge, Network Supported Monitoring & Control Software, Software Supports Windows 98/ME/NT/2000/XP/2003, Linux, Sun Solaris 7/8/9, IBM Aix 4.3 & 5.1x, HP-UX 11.x, Compaq True 64, SGI Irix, Free BSD, Unix Systems, MAC Supported
Hot Standby	2-6 Pieces of UPS hot standby in parallel
Operation Temperature & Humidity	
Operation Temperature	0 °C ~ 40 °C
Best Operation Temperature	10 °C-25 °C
Storage Temperature	-20 °C-70 °C
Operation Humidity	maximum 95% (Non Condensed)
Noise Level	≤ 55 dB



Portable Modified Sine Wave Inverter AMI Series

ANDEFIA Inverter/Charger provides dependable modified sine wave power for businesses, homes and workshops. Available from 600Va to 1200Va models, it can power most common electrical appliances such as lights, televisions, cash registers, refrigerators, washing machines, computers, and power tools. The TIDY's high surge capacity gives it the ability to start difficult motor loads. Once set up, all functions of the inverter/charger are fully automatic.

Product Features:

- Output waveform: Modified sine wave
- Output voltage: 110V, 120V, 220V, 230, 240V version optional
- Anodized aluminum case provides durability & max heat dissipation
- Low battery, overload, and high battery, over temperature protection circuitry
- Low idle current (less than one watt) conserves energy when no loads are present
- Quiet, high efficiency operation
- Built-in Smart Cooling Fan



Model	AMI-500	AMI-500C	AMI-1000	AMI-1000C	AMI-1200	AMI-1200C	
Power	400W	400W	800W	800W	960W	960W	
Input	Input Voltage Range		11.0-14.5V DC				
	Nominal Input Voltage		12V DC				
	Max. Input Current		55A	55A	100A	100A	110A
Output	Nominal Output Voltage		220/230/240Vac (110/120Vac Optional)				
	Nominal Output Current		2.5A	2.5A	5A	5A	5.5A
	Output Voltage Range		220/230/240Vac±10% -15% (110/120Vac Optional)				
	Output Frequency		50/60Hz±0.5				
	Overload Capacity		110-120%(60 Seconds)				
Efficiency	Wave Form		Modified Sine Wave				
	Power Factor		0.8				
Audible Alarm	Efficiency		≥90%				
	Buzzer		Battery Low Voltage Beep For 60 Seconds				
Protection	Overload Protection		Yes				
	Battery Low/High Voltage Protection		Yes				
	Output Short Circuit Protection		Output Auto Cut Off, Buzzer Beeping				
	High Temperature Protection		Yes				
Charger	Nominal Input Voltage		220/230/240Vac±10% -15% (110/120Vac Optional)				
	Input Frequency		50/60Hz±0.5				
	Max. Input Current		1.0A				
	Charging Voltage		13.65V±0.5V				
Regulatory Approvals	Charging Current		10A (Max)				
	CE						
Environmental	Operation Temperature		0°C-40°C				
	Storage Temperature		-15°C-45°C				
	Operation Relative Humidity		10%Rh-95%Rh Non-Condensing				
Physical	Machine Size (mm)		220x220x85	300x220x85	300x220x85	400x220x85	400x220x85
	N.W. (Kgs)		2	3	3	3.7	3.7

**Automatic Transfer Switches
ATS Series**



Automatic transfer switches (ATS) continually monitor the incoming utility power. Any anomaly such as voltage sags, brownouts, spikes or surges will cause the internal circuitry to command a generator/UPS startup and then a transfer to the emergency generator/UPS when additional switch circuitry determines the generator/UPS has the proper voltage and frequency. When utility power returns, or no other anomalies have occurred for a set time, the transfer switch will then transfer, back to utility power and command the generator/UPS to turn off after another specified amount of "cool down" time.

Product Features:

- CPU control
- SCR transfer
- Preset Input Tolerance
- Over-voltage/Low-voltage transfer alarm
- Advanced detects circuit, make sure clean output
- Trigger for UPS/Generator

Model	Input Voltage	Capacity	Transfer Time	Size	Weight
ATS-AC11	AC; 220Vac 50Hz	5KVA-80KVA	<4ms±1	530x400x180mm	20KG
ATS-AC33	AC; 380Vac 50Hz	5KVA-80KVA	<4ms±1	680x400x180mm	54KG
ATS-DC	DC(10V-1000V) 50Hz	5KVA-80KVA	<2ms±1	530x400x180mm	20KG

Linear regulator

Control by magnetoinduction, no interference and voltage drop

Tolerate harsh environment

Selected industrial grade components, tolerate harsh environment of temperature, humidity, pollution, vibration

Compact size, light weight

Patented new programming technology and high strength structure make it a compact size and light weight

Wide input range

Wide range design, withstand surge and spike

Sturdy and durable, long life span

Contactless design, giving a life span of more than 10 years

Easy maintenance

Modular design, standardized components, less than 0.1% defective rate

Output low/high/open-phase voltage protection

Isolated voltage detects circuit. Settable voltage protection points. Auto cut off output for abnormal voltage output and giving audible alarm

Short circuit protection

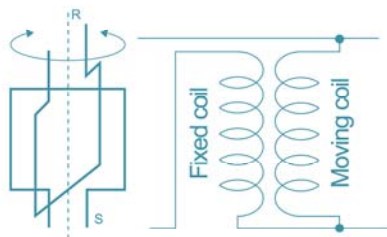
Built-in short circuit protection to prevent any unexpected damage.

Resist unbalance current

Double lap winding design. Even when phase loading is in 50% unbalance, voltage drop between wires will not happen

Delay function

Only when system voltage is in normal range will the regulator give output



**Industrial Inductive Contactless Regulators
ARD Series**

ARD series is the most reliable AVR with magnetolectric technology. Features: Low iron loss high magnetic intensity silicon steel, Closed slots design, High precision punching sheet technology, High full groove ratio winding technique -- All these efforts make our AVR unique of lowest line loss and voltage drop. Moreover, compact size, light weight, high efficiency and high reliability are their most significant characteristics. Non-contact design makes our AVR different to the traditional carbon brush or relay type AVR, without spark/arc. We can say ARD series is the best voltage regulator for industrial usage.

Suitable for:

E.D.M., color printing machine; precision measuring instrument; wire cutting machine, Laser cutting machine; CNC machine; SMT machine; auto-puncher; PCB drilling machine; computer Peripheral and network; Laser Engraving Machine; medical or chemical equipments



Characteristic:

- Input voltage range: ±15%
- Output voltage range: ±1%~±5% adjustable
- Frequency range: 45-65Hz
- Output precision: standard ±1%
- Overload ability: rated current, 500%, 5 seconds; 300%, 30 seconds; 200%, 60 seconds
- Heat run: ≤100°C (at full load)
- Wave distortion: <3% insulation resistance: coil to ground>5MΩ
- Response time: <0.042 second
- Insulation withstanding: 2000V 60S (coil to other body)
- Creepage distance: >8mm
- Grounding resistance: ≤0.1Ω
- Overheat bypass: main coil temperature > 130°C, transfer to bypass automatically
- Protection: input low voltage/ output high voltage/ open-phase
- Energy saving function: auto power cut off without loading
- Delay function: yes
- Efficiency: ≥98% (at full load)
- No-load loss: ≤1%
- Cooling mode: forced cooling by air
- Shock resistant: 0.3G
- Fan activated temperature: 100°C
- Noise: <65dB (distance: 1 meter from cabinet; full load)
- Operation Humidity: 0%~90% (Non Condensed)
- Operation Temperature: -20°C~40°C

The major part is "R" (rotor) and S (stator). Winding inside "R" is primary winding and connect to the mains, winding inside "S" is secondary winding and connects to applications.

When the movable coil is positioned perpendicular to the fixed coil, the magnetic forces acting on the fixed coil balance each other out and voltage output is unchanged. Rotating the coil in one direction or the other away from the center position will increase or decrease voltage in the secondary fixed coil.

Rotor is automated via a servo motor to advance the movable coil position in order to provide voltage increase or decrease. A high ratio gearing is used to hold the rotating coil in place against the powerful electromagnetic forces acting on the moving coil.

Three phase series

Model	Capacity	Current (220V)	Current (380V)	Size (W*D*H)	Weight	
ARD-3006	6KVA	4.8KW	15A	9A	260mm*380mm*615mm	40KG
ARD-3010	10KVA	8KW	26A	15A	280mm*380mm*615mm	45KG
ARD-3015	15KVA	12KW	39A	22A	280mm*380mm*615mm	50KG
ARD-3020	20KVA	16KW	52A	30A	280mm*380mm*615mm	58KG
ARD-3030	30KVA	24KW	78A	45A	360mm*460mm*805mm	85KG
ARD-3045	45KVA	36KW	118A	68A	360mm*460mm*805mm	100KG
ARD-3060	60KVA	48KW	157A	91A	360mm*460mm*805mm	115KG
ARD-3080	80KVA	64KW	210A	121A	550mm*550mm*935mm	140KG
ARD-3100	100KVA	80KW	263A	152A	550mm*550mm*935mm	165KG
ARD-3120	120KVA	96KW	315A	182A	550mm*550mm*935mm	230KG
ARD-3150	150KVA	120KW	394A	228A	550mm*550mm*935mm	260KG

Three phase with transformer

Model	Capacity	Current (220V)	Current (200V)	Size (W*D*H)	Weight	
ARD-3006X	6KVA	4.8KW	15A	17A	500mm*380mm*615mm	75KG
ARD-3010X	10KVA	8KW	26A	28A	500mm*380mm*615mm	90KG
ARD-3015X	15KVA	12KW	39A	43A	500mm*380mm*615mm	110KG
ARD-3020X	20KVA	16KW	52A	57A	500mm*380mm*615mm	125KG
ARD-3030X	30KVA	24KW	78A	86A	600mm*460mm*805mm	185KG
ARD-3045X	45KVA	36KW	118A	129A	600mm*460mm*805mm	210KG
ARD-3060X	60KVA	48KW	157A	173A	600mm*460mm*805mm	260KG
ARD-3080X	80KVA	64KW	210A	230A	700mm*550mm*935mm	330KG
ARD-3100X	100KVA	80KW	263A	288A	700mm*550mm*935mm	400KG

**Auto Energy Saver
AES**

It is known to all that High-Intensity Discharge lamp is the major streetlamp, power consumption is according to the input voltage. For bulb like High Pressure Sodium lamps or Metal Halide lamp, input voltage decrease by 10%, current will decrease by 10% that means the power consumption will be up to 25% lower. Of course brightness will be around 20% lower. In the same time, when brightness increase by 1000%, we can only feel that the brightness increased by 100%; but when brightness decreased by 9%, people can feel the brightness by less than 1%, that means no every can feel this change. After midnight, mains voltage boosted because less power consumed by factory and household. On the contrary, people flow and car flow will reduce significantly, it is the right time to save energy.

Moreover, by decrease the input voltage, lifespan of streetlamp can be longer than the one without our energy saver. After midnight, voltage can be 15% higher than the rated parameter. And the test data tell us that if the input voltage for High Pressure Sodium lamps or Metal halide lamp is higher than rated voltage, life span is 50% shorter than the normal environment. But if input voltage is 95% of the rated, life span can be double. For example, nominal life span of GE High Pressure Sodium lamps is 25000h, but the actual span is much shorter. The only reason is the mains can not offer a stable voltage and the lamp run under over-voltage for long time.

Theoretically, if decrease input voltage to 88% of rate voltage (195V), visual brightness decrease by 3.4%, life span for streetlamps increase by 80%, saving energy up to 30%.

Patents Number: 200430011095.4 200420012383.6 200510017169.9 200710029150.5

- Characteristic:**
Input voltage range: 3Φ4W 330V~425V (190V~245V)
Output voltage range: 3Φ4W 340V~380V (195V~220V)
3Φ4W 320V~380V (185V~220V)
Frequency range: 45~60Hz
Voltage Setting by user: maximum 4 settable voltage segments
Output precision: standard ±1%
Overload ability: rated current (500%, 5 seconds; 300%, 30 seconds; 200%, 60 seconds)
Heat run: ≤100°C (at full load)
Wave distortion: <5%
Insulation resistance: coil to ground≥5MΩ
Resistance to time set by requirement
Insulation withstanding: 2000V 60S (coil to other body)
Creepage distance: >8mm
Grounding resistance: ≤0.1Ω
Overheat bypass: main coil temperature >130°C, transfer to bypass automatically
Bypass: input low voltage/ output high voltage bypass (automatically)
Energy saving function: auto power cut off without loading
Delay function: yes
Efficiency: >95% (at full load)
No-load loss: ≤1%
Cooling mode: forced cooling by air
Shock resistant: 0.3G
Fan activated temperature: 100°C
Noise: ≤65dB (distance: 1 meter from cabinet; full load)
Operation Humidity: 0%~90% (Non Condensed)
Operation Temperature: -20°C~40°C



★ 3 year warranty for whole machine, 10 years life time.

Model	Output Voltage	Capacity		Current	L*W*H(cm)	Weight
HVR-3010D420	AC 340-380V	10KVA	8KW	15A	40*55*80	55KG
HVR-3015D420		15KVA	12KW	23A	40*55*80	65KG
HVR-3020D420		20KVA	16KW	30A	45*65*95	90KG
HVR-3030D420		30KVA	24KW	46A	45*65*95	110KG
HVR-3040D420		40KVA	32KW	61A	45*65*95	130KG
HVR-3050D420		50KVA	40KW	76A	50*75*105	180KG
HVR-3060D420		60KVA	48KW	91A	50*75*105	210KG
HVR-3080D420		80KVA	64KW	122A	50*75*105	240KG
HVR-3100D420		100KVA	80KW	152A	60*90*130	320KG
HVR-3120D420		120KVA	96KW	182A	60*90*130	400KG
HVR-3150D420	AC 320-380V	150KVA	120KW	228A	60*90*130	480KG
HVR-3200D420		200KVA	160KW	304A	60*90*130	560KG
HVR-3010D425		10KVA	8KW	15A	40*55*80	65KG
HVR-3015D420		15KVA	12KW	23A	45*65*95	90KG
HVR-3020D425		20KVA	16KW	30A	45*65*95	110KG
HVR-3030D425		30KVA	24KW	46A	45*65*95	130KG
HVR-3040D425		40KVA	32KW	61A	50*75*105	180KG
HVR-3050D425		50KVA	40KW	76A	50*75*105	210KG
HVR-3060D425		60KVA	48KW	91A	50*75*105	240KG
HVR-3080D425		80KVA	64KW	122A	60*90*130	320KG
HVR-3100D425	100KVA	80KW	152A	60*90*130	400KG	
HVR-3120D425	120KVA	96KW	182A	60*90*130	480KG	
HVR-3150D425	150KVA	120KW	228A	60*90*130	560KG	



**C.R.G.O. Transformer with Meter Displayer
SVR series**

With a ANDEFIA Voltage Stabilizer, all your high power devices will maintain the stability needed to deliver peak power and performance.

Applications:
 Computer, Test Equipments, Lighting Equipment, Medical Equipment, Duplicators, Stereo Sound Equipment, Auto Process Control Equipment, TV-SET, Office Appliances, ect.

- Specifications:**
 Technology: C.R.G.O. transformer
 Input Voltage: 140Vac~280Vac
 Input Frequency: 50/60Hz
 Output Voltage: 220Vac(110V/120V/230V/240V Version Optional)
 Output Accuracy: ±8%
 Efficiency: 98%
 Phase: single phase
 Display: meter display input voltage/ output voltage
 Protection: High voltage protection
 Low voltage protection
 High temperature protection
 Delay time protection
 Short circuit protection
 Compliant Standards: CE, EN60950, EN55024
 Operating Temperature: 0°C~40°C
 Storage Temperature: -15°C~45°C
 Operating Relative Humidity: 10%RH~102%RH, Non-condensing



Model	Output Connector	Smart Cooling System	Packing (Carton Box)		
			QTY/CTN	Size (mm)	N.W.(Kgs)
SVR-500VA	Socket	No	8 Pcs	440 X 270 X 325	20
SVR-1000VA	Socket	No	4 Pcs	440 X 270 X 325	16.2
SVR-1500VA	Socket	No	4 Pcs	495 X 310 X 210	19.6
SVR-2000VA	Socket	No	4 Pcs	495 X 310 X 210	22.92
SVR-3000VA	Hardwire	Yes	1 Piece	330 X 260 X 285	9.7
SVR-5000VA	Hardwire	Yes	1 Piece	330 X 260 X 285	13.5
SVR-8000VA	Hardwire	Yes	1 Piece	450 X 310 X 340	18
SVR-10000VA	Hardwire	Yes	1 Piece	450 X 310 X 340	20.35

**C.R.G.O. Transformer with LED Displayer
SDR series**

With a ANDEFIA Voltage Stabilizer, all your high power devices will maintain the stability needed to deliver peak power and performance.

Applications:
 Computer, Test Equipments, Lighting Equipment, Medical Equipment, Duplicators, Stereo Sound Equipment, Auto Process Control Equipment, TV-SET, Office Appliances, ect.

- Specifications:**
 Technology: C.R.G.O. transformer
 Input Voltage: 140Vac~280Vac
 Input Frequency: 50/60Hz
 Output Voltage: 220Vac(110V/120V/230V/240V Version Optional)
 Output Accuracy: ±8%
 Efficiency: 98%
 Phase: single phase
 Display: LED display input voltage/ output voltage
 Protection: High voltage protection
 Low voltage protection
 High temperature protection
 Delay time protection
 Short circuit protection
 Compliant Standards: CE, EN60950, EN55024
 Operating Temperature: 0°C~40°C
 Storage Temperature: -15°C~45°C
 Operating Relative Humidity: 10%RH~102%RH, Non-condensing



Model	Output Connector	Smart Cooling System	Packing (Carton Box)		
			QTY/CTN	Size (mm)	N.W.(Kgs)
SDR-500VA	Socket	No	8 Pcs	440 X 270 X 325	20
SDR-1000VA	Socket	No	4 Pcs	440 X 270 X 325	16.2
SDR-1500VA	Socket	No	4 Pcs	495 X 310 X 210	19.6
SDR-2000VA	Socket	No	4 Pcs	495 X 310 X 210	22.92
SDR-3000VA	Hardwire	Yes	1 Piece	330 X 260 X 285	9.7
SDR-5000VA	Hardwire	Yes	1 Piece	330 X 260 X 285	13.5
SDR-8000VA	Hardwire	Yes	1 Piece	450 X 310 X 340	18
SDR-10000VA	Hardwire	Yes	1 Piece	450 X 310 X 340	20.35

Not only a AVR, but also a Battery Charger
BVR series

Built-in high capacity voltage charge up to 30A (5A to 30A optional)
Battery Over-charge protection
Battery Level Monitoring and Display

Specifications:
Technology: C.R.G.O. transformer
Input Voltage: 140Vac-260Vac
Input Frequency: 50/60Hz
Output Voltage: 220Vac(110V/120V/230V/240V Version Optional)
Output Accuracy: ±8%
Efficiency: 98%
Phase: single phase
Display: meter display input voltage/ output voltage
Protection: High voltage protection
Low voltage protection
High temperature protection
Delay time protection
Short circuit protection
Compliant Standards: CE, EN60950, EN55024
Operating Temperature: 0°C-40°C
Storage Temperature: -15°C-45°C
Operating Relative Humidity: 10%RH-102%RH, Non-condensing



Model	Output Connector	Smart Cooling System	Packing (Carton Box)		
			QTY/CTN	Size (mm)	N.W.(Kgs)
BVR-500VA	Socket	No	8 Pcs	440 X 270 X 325	20
BVR-1000VA	Socket	No	4 Pcs	440 X 270 X 325	16.2
BVR-1500VA	Socket	No	4 Pcs	495 X 310 X 210	19.6
BVR-2000VA	Socket	No	4 Pcs	495 X 310 X 210	22.92
BVR-3000VA	Hardwire	Yes	1 Piece	330 X 260 X 285	9.7
BVR-5000VA	Hardwire	Yes	1 Piece	330 X 260 X 285	13.5
BVR-8000VA	Hardwire	Yes	1 Piece	450 X 310 X 340	18
BVR-10000VA	Hardwire	Yes	1 Piece	450 X 310 X 340	20.35

Servo Motor Regulator with Meter Displayer
SVC series

With a ANDEFIA Voltage Stabilizer , all your high power devices will maintain the stability needed to deliver peak power and performance.

Applications:
Computer, Test Equipments, Lighting Equipment, Medical Equipment, Duplicators, Stereo Sound Equipment, Auto Process Control Equipment , TV-SET, Office Appliances, ect.

Specifications:
Technology: servo motor type transformer
Input Voltage: 140Vac-260Vac
Input Frequency: 50/60Hz
Output Voltage: 220Vac(110V/120V/230V/240V Version Optional)
Output Accuracy: ±3%
Efficiency: 98%
Phase: single phase
Display: meter display input voltage/ output voltage
Protection: High voltage protection
Low voltage protection
High temperature protection
Delay time protection
Short circuit protection
Compliant Standards: CE, EN60950, EN55024
Operating Temperature: 0°C-40°C
Storage Temperature: -15°C-45°C
Operating Relative Humidity: 10%RH-102%RH, Non-condensing



Model	Output Connector	Smart Cooling System	Packing (Carton Box)		
			QTY/CTN	Size (mm)	N.W.(Kgs)
SVC-1000VA	Socket	No	4 Pcs	440 X 270 X 325	24.8
SVC-1500VA	Socket	No	4 Pcs	495 X 310 X 210	29.2
SVC-2000VA	Socket	No	4 Pcs	495 X 310 X 210	31.6
SVC-3000VA	Hardwire	Yes	1 Piece	330 X 260 X 285	12.2
SVC-5000VA	Hardwire	Yes	1 Piece	330 X 260 X 285	13.8
SVC-8000VA	Hardwire	Yes	1 Piece	450 X 310 X 340	27.8
SVC-10000VA	Hardwire	Yes	1 Piece	450 X 310 X 340	33.8

Not only a AVR, but also a Battery Charger
BDR series

Built-in high capacity voltage charge up to 30A (5A to 30A optional)
Battery Over-charge protection
Battery Level Monitoring and Display

Specifications:
Technology: C.R.G.O. transformer
Input Voltage: 140Vac-260Vac
Input Frequency: 50/60Hz
Output Voltage: 220Vac(110V/120V/230V/240V Version Optional)
Output Accuracy: ±8%
Efficiency: 98%
Phase: single phase
Display: LED display input voltage/ output voltage
Protection: High voltage protection
Low voltage protection
High temperature protection
Delay time protection
Short circuit protection
Compliant Standards: CE, EN60950, EN55024
Operating Temperature: 0°C-40°C
Storage Temperature: -15°C-45°C
Operating Relative Humidity: 10%RH-102%RH, Non-condensing



Model	Output Connector	Smart Cooling System	Packing (Carton Box)		
			QTY/CTN	Size (mm)	N.W.(Kgs)
BDR-500VA	Socket	No	8 Pcs	440 X 270 X 325	20
BDR-1000VA	Socket	No	4 Pcs	440 X 270 X 325	16.2
BDR-1500VA	Socket	No	4 Pcs	495 X 310 X 210	19.6
BDR-2000VA	Socket	No	4 Pcs	495 X 310 X 210	22.92
BDR-3000VA	Hardwire	Yes	1 Piece	330 X 260 X 285	9.7
BDR-5000VA	Hardwire	Yes	1 Piece	330 X 260 X 285	13.5
BDR-8000VA	Hardwire	Yes	1 Piece	450 X 310 X 340	18
BDR-10000VA	Hardwire	Yes	1 Piece	450 X 310 X 340	20.35

Servo Motor Regulator with LED Displayer
SDC series

With a ANDEFIA Voltage Stabilizer , all your high power devices will maintain the stability needed to deliver peak power and performance.

Applications:
Computer, Test Equipments, Lighting Equipment, Medical Equipment, Duplicators, Stereo Sound Equipment, Auto Process Control Equipment , TV-SET, Office Appliances, ect.

Specifications:
Technology: servo motor type transformer
Input Voltage: 140Vac-260Vac
Input Frequency: 50/60Hz
Output Voltage: 220Vac(110V/120V/230V/240V Version Optional)
Output Accuracy: ±3%
Efficiency: 98%
Phase: single phase
Display: LED display input voltage/ output voltage
Protection: High voltage protection
Low voltage protection
High temperature protection
Delay time protection
Short circuit protection
Compliant Standards: CE, EN60950, EN55024
Operating Temperature: 0°C-40°C
Storage Temperature: -15°C-45°C
Operating Relative Humidity: 10%RH-102%RH, Non-condensing



Model	Output Connector	Smart Cooling System	Packing (Carton Box)		
			QTY/CTN	Size (mm)	N.W.(Kgs)
SDC-1000VA	Socket	No	4 Pcs	440 X 270 X 325	24.8
SDC-1500VA	Socket	No	4 Pcs	495 X 310 X 210	29.2
SDC-2000VA	Socket	No	4 Pcs	495 X 310 X 210	31.6
SDC-3000VA	Hardwire	Yes	1 Piece	330 X 260 X 285	12.2
SDC-5000VA	Hardwire	Yes	1 Piece	330 X 260 X 285	13.8
SDC-8000VA	Hardwire	Yes	1 Piece	450 X 310 X 340	27.8
SDC-10000VA	Hardwire	Yes	1 Piece	450 X 310 X 340	33.8

**Universal Voltage Regulator
ATVR series**

The ATV Series Step Up / Step Down Voltage Regulator (Stabilizer) Transformers provide a stable source of power for all major appliances and sensitive electronics. In addition to converting 220/230/240 volts to 110/120 volts and visa versa, these voltage regulator transformers will stabilize either 120 volts or 220 volts. What that means is they will provide stabilized 120 volts when the input is 120 as well as providing a constant stabilized 220 volts when the input is 220/230/240 volts. The input parameters for stabilization (regulation) of power are 80 volts – 140 volts and 120 volts – 240 volts. The output is stabilized to either 110 volts or 220 volts +/- 4%. These step up / step down voltage regulator voltage converters have a time delay feature that reduces power fluctuations. Certain large appliances such as refrigerators, freezers, washing machines, etc. which contain motors and compressors can be damaged at start-up when used with standard step up / step down transformers.

Specifications:
 Technology: C.R.G.O. transformer with dual voltage regulators
 Input Voltage Range: 80Vac – 140Vac and 120Vac – 260Vac
 Input Frequency: 50/60 Hz
 Output Voltage: 110Vac and 220Vac
 Output Precision: ± 10%
 Efficency: 98%
 Phase: single Phase
 Display: dual meter indicates line voltage and regulated voltage
 3 LED indicators to show status of working, unusual and delaying
 Protection: High voltage protection
 Low voltage protection
 High temperature protection
 Delay time protection
 Short circuit protection
 Compliant Standards: CE, EN60950, EN55024
 Operating Temperature: 0°C–40°C
 Storage Temperature: -15°C–45°C
 Operating Relative Humidity: 10%RH–102%RH, Non-condensing



Model	Circuit Protection	Smart Cooling System	Packing (Carton Box)		
			QTY/CTN	Size (mm)	N.W.(Kgs)
ATVR-500VA	Fuse	No	4 Pcs	440 X 270 X 325	20.8
ATVR-1000VA	Circuit Breaker	No	4 Pcs	440 X 270 X 325	24.8
ATVR-1500VA	Circuit Breaker	No	4 Pcs	495 X 310 X 210	29.2
ATVR-2000VA	Circuit Breaker	No	4 Pcs	495 X 310 X 210	31.6
ATVR-3000VA	Circuit Breaker	Yes	1 Piece	330 X 260 X 285	12.2
ATVR-5000VA	Circuit Breaker	Yes	1 Piece	330 X 260 X 285	13.8
ATVR-8000VA	Circuit Breaker	Yes	1 Piece	450 X 310 X 340	27.8
ATVR-10000VA	Circuit Breaker	Yes	1 Piece	450 X 310 X 340	33.8

**Double Way Voltage Converter
VT Series
(Step Up or Step down optional)**

Converts single phase 220/240 Volts down to 110/120 Volts or 110/120 Volts up to 220/240 Volts
 C.R.G.O. transformer
 Durable design with a heavy-duty cord
 Universal outlet for model from 100Va to 2000Va, connection board for model from 3000Va and up
 On & Off switch, fuse (Includes 2 spare fuses)/circuit breaker protected
 Easy to carry with attached handle, heavy-duty metal casing, fuse protected
 CE Certified



Model	UNIT N.W. (Kgs)	Color Box(cm)			QTY/CTN	G.W (Kgs)	Carton Box(cm)		
		L	W	H			L	W	H
VT-100	1.5	23.3	17.0	15.2	12.0	19.0	51.5	47.5	28.5
VT-200	1.7	23.3	17.0	15.2	12.0	21.4	51.5	47.5	28.5
VT-300	2.0	23.3	17.0	15.2	12.0	25.0	51.5	47.5	28.5
VT-500	2.5	23.3	17.0	15.2	12.0	31.0	51.5	47.5	28.5
VT-800	3.0	27.8	18.5	16.7	6.0	20.4	58.0	58.0	19.0
VT-1000	3.8	27.8	18.5	16.7	6.0	27.6	58.0	58.0	19.0
VT-1500	4.7	28.0	20.5	17.5	4.0	20.4	58.0	43.0	20.0
VT-2000	6.1	28.0	20.5	17.5	4.0	28.5	58.0	43.0	20.0
VT-3000	10.5	39.1	27.5	22.0	2.0	21.0	56.5	40.6	23.5
VT-4000	13.1	39.1	27.5	22.0	2.0	26.2	56.5	40.6	23.5
VT-5000	15.5	39.1	27.5	22.0	2.0	32.0	56.5	40.6	23.5
VT-8000	23.0				1.0	24.0	48.1	36.5	30.7
VT-10000	26.0				1.0	27.0	48.1	36.5	30.7