



Main Features

- **True Online Double Conversion**
- **High frequency technology**
- **DSP design to ensure protection and reliability**
- **Complete protection to cater the needs of vast options**
 - * Wide input range
 - * Advanced power factor correction. Input power factor reaching 0.99
 - * Output short circuit protection using digital technology
 - * Control of Bypass-Inverter conversion
 - * Sensitive peak current detection and protection for UPS, supplying nonlinear loads
 - * Unique low ripple charger prevention, designed to protect battery support
 - * Frequency autosensing from 45-65 Hz
 - * Compatible with various generators, to be able to facilitate cost reductions
 - * Redundancy operation, further improving system reliability
- **Monitoring and Network Management**

LCD and LED double display of operational status, event, digital metering. RS232 and SNMP (*optional*) slot to make it possible to monitor and provide network communication.

Specifications

Model	AZ-Series
Capacity VA/Watts	1 Kva-800W, 2 Kva-1600W, 3 Kva-2400W
Input	
Phase	Single phase
Voltage range	160 ~ 300 VAC
Frequency	45Hz ~ 65Hz (Auto tracking)
Bypass voltage	80VAC ± 5% ~ 285VAC ± 5%
Output	
Voltage range	220VAC ± 2%
Frequency	Mains: 46Hz input frequency 54Hz, auto Tracking; Input below 46Hz or above 54Hz, lock output frequency at 50Hz Battery: 50Hz ± 0.2%
Waveform	Pure sine wave
Distortion	THD<3% with nonlinear load; THD<1% with linear load
Power factor	≥0.8
Over load	125% for 1min bypass or shutdown; 150% for half cycle, then transfer to bypass or shutdown
Crest ratio	3:1
General features	
Efficiency	>90% (AC to AC)
Switching time	0ms
Noise suppressor	< 45 dB (At 1 meter)
Working temperature	0- 45°C
Environment Humidity	< 95% non-condensing
Safety standard	GB/T14715, EN50091-1/2
DC starts	Yes
Generator compatible	Yes
Display	LED: UPS operating status, inverter/bypass status, battery, load LCD: [optional] UPS operating status, inverter/bypass status, battery load
Alarm	Mains fault, battery low, overload, short circuit, UPS fault
Mute	Manual
Battery features	
Type	Maintenance-free sealed lead-acid
DC Voltage	1KVA/36VDC, 2KVA/72VDC, 3KVA/96VDC
Charging current	1A, 6A, 7A [adjustable]
Protection function	
Short circuit	No output. Auto recovery after short circuit removal
Noise suppressor	EMI/RFI filter
Low voltage on battery	Shut down
Output abnormal	Inverter auto lock
Communication Interface	
Connection	True RS-232 communication port: SNMP [optional]
Function	Status of mains and battery, mains failure, battery voltage, remote shut down, menu operation
Physical parameter	
Dimension (W×D×H mm)	1KVA/144×355×219; 2KVA/190×383×319; 3KVA/190×433×319 (with battery built-in & w/o battery, long back-up)
Weight (Kg)	AZ10S/12, AZ10L/6.5; AZ20S/23, AZ20L/10.5; AZ30S/31, AZ30L/14

Note: All specifications are subject to change without prior notice. All registered trademarks are property of their respective owners.

Specifications

Model	AZ-Series
Capacity VA/Watts	6 Kva-4800W/10 Kva-8000W
Input	
Phase	Single phase
Voltage range	175 ~ 280 VAC
Frequency	45Hz ~ 65Hz (Auto tracking)
Power Factor	≥0.99
Bypass voltage	80VAC ± 5% ~ 285VAC ± 5%
Output	
Voltage range	220/230/240 VAC ± 1%
Frequency	Mains: 46Hz input frequency 54Hz, auto Tracking; Input below 46Hz or above 54Hz, lock output frequency at 50Hz Battery: 50Hz ± 0.2%
Waveform	Pure sine wave
Distortion	THD<3% with nonlinear load; THD<1% with linear load
Power factor	≥0.8 (0.9 Optional)
Over load	1~6kva: 125% for 1 min bypass or shutdown; 150% for half cycle, then transfer to bypass or shutdown 10kva: 125% for 10 mins, then transfer to bypass or shutdown 150% for half cycle, then transfer to bypass or shutdown
Crest ratio	3:1
General features	
Efficiency	>90% (AC to AC)
Switching time	0ms
Noise suppressor	< 45 dB (At 1 meter)
Working temperature	0- 45°C
Environment Humidity	< 95% non-condensing
Safety standard	GB/T14715, EN50091-1/2
Parallel redundancy	Yes
DC starts	Yes
Generator compatible	Yes
Display	LED: UPS operating status, inverter/bypass status, battery, load LCD: [optional] UPS operating status, inverter/bypass status, battery load
Alarm	Mains fault, battery low, overload, short circuit, UPS fault
Mute	Manual
Battery features	
Type	Maintenance-free sealed lead-acid
DC Voltage	6KVA/10KVA: 192 VDC or 240 VDC
Charging current	1A, 7A [adjustable]
Protection function	
Short circuit	Circuit auto protection, no output
Noise suppressor	EMI/RFI filter
Low voltage on battery	Shut down
Output abnormality	Inverter auto lock
Communication Interface	
Connection	True RS-232 communication port: SNMP [optional]
Function	Status of mains and battery, mains failure, battery voltage, remote shut down, menu operation
Physical parameter	
Dimension (W×D×H mm)	6KVA/10KVA: 260X517X606 (with battery built-in) 6KVA/10KVA: 260X517X516 (w/o battery, long back-up)
Weight (Kg)	AZ60S/62, AZ60L/18; AZ100S/64, AZ100L/20

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Specifications

Model	AZ-Series
Capacity VA/Watts	10 Kva-8KW, 15 Kva-12KW, 20 Kva-16KW
Input	
Phase	3 phase in / 1 phase out
Voltage range	304 ~ 478 VAC
Frequency	45Hz ~ 65Hz (Auto tracking)
Power Factor	≥0.99
Output	
Voltage range	220/230/240 VAC ± 1%
Frequency	Mains: 46Hz input frequency 54Hz, auto Tracking; Input below 46Hz or above 54Hz, lock output frequency at 50Hz Battery: 50Hz ± 0.2%
Waveform	Pure sine wave
Distortion	THD<3% with nonlinear load; THD<1% with linear load
Power factor	≥0.8 (0.9 Optional)
Over load	>125% for 10 minutes, then transfer to bypass or shutdown >150% for half cycle, then transfer to bypass or shutdown
Crest ratio	3:1
General features	
Efficiency	>90%(AC to AC)
Switching time	0ms
Noise suppressor	< 45 dB (At 1 meter)
Working temperature	0- 45°
Environment Humidity	< 95% non-condensing
Safety standard	GB/T14715, EN50091-1/2
Parallel redundancy	Yes
DC starts	Yes
Generator compatible	Yes
Display	LED: UPS operating status, inverter/bypass status, battery, load LCD: [optional] UPS operating status, inverter/bypass status, battery load
Alarm	Mains fault, battery low, overload, short circuit, UPS fault
Mute	Manual
Battery features	
Type	Maintenance-free sealed lead-acid
DC Voltage	192VDC or 240VDC
Noise suppressor	EMI/RFI filter
Low voltage on battery	Shut down
Output abnormal	Inverter auto lock
Charging current	1A, 7A [adjustable]
Communication Interface	
Connection	True RS-232 communication port; SNMP [optional]
Function	Status of mains and battery, mains failure, battery voltage, remote shut down, menu operation
Physical parameter	
Dimension (W×D×H mm)	10KVA/15/20KVA: 260X517X606 (w/o battery, long back-up)
Weight (Kg):	AZ100L31/27, AZ150L31/34; AZ20L31/35

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