



ONLINE 1 PHASE UPS Power range: 1KVA-3KVA Tower type



Features

- High frequency on-line double conversion technology
- · DSP (Digital signel processors) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9/1.0
- Wide input voltage range (110V 300Vac) and frequency range (40 - 70Hz)
- · Auto-sensing frequency
- 50/60 Hz frequency conversion
- Cold start
- Rear ventilation design and variable speed fan
- · Effective software and hardware protection
- · Quick and stable charging, 90% capacity restored in 3h (standard model UPS)

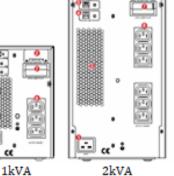
times · Settable delayed start when power is restored

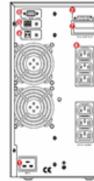
· Linear derating in low voltage input reducing battery discharging

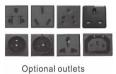
- Advanced battery management (ABM)
- · Multiple functions settable via LCD: output voltage, EOD, autostart, bypass mode, ECO mode and frequency conversion mode
- Multi-platform communications: RS232 (standard), USB / RS485/SNMP / dry contacts (optional)
- Optional USB, RS485 card, AS400 dry contacts, SNMP card, EPO function, EPO

Rear panel	
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- 1. AC input socket
- 2. Battery connector (Optional)
- 3. Fan
- 4. USB (Optional)
- 5. EPO (Optional)
- 6. RS232
- 7. Intelligent slot (Optional)
- 8. Output sockets







3kVA





Specifications

Capacity 1 kVA / 900W 2 kVA / 1800W 3 kVA / 2700W Operation mode Standby mode, Bypass mode, AC mode, Batr node, Batr node, Betr self test mode, ECO mode, CUCF mode NPUT Extent voltage 1 non-received and test of the second and test of the	MODEL	EC1KT9/ EC1KS	EC2KT9/EC2KS	EC3KT9/EC3KS	
NPUT Intervention Rated voltage 1 phase 208 / 220 / 230 / 240 vac (selectable) Voltage range 110-176Vac (linear derating between 50% and 100% load); 176-280Vac (no derating); 280-300Vac (derating 50%) Frequency 50/60/L (auto-sensing); 40 – 70Hz Power factor 2.0.90 Bypass voltage range .25% - 115% (settable) THD ≤ 5% OUTPUT <5% Voltage regulation ± 1% Frequency 45-55Hz or 55-65Hz (synchronized range); 50-60Hz ±0.1Hz (battery mode) Waveform Pure sine wave Power factor 0.9 THDv ≤ 2% (inear load), ≤ 5% (non-linear load) Crest factor 0.3 THOV ≤ 2% (inear load), ≤ 5% (non-linear load) Crest factor 3.1 Overlaad 106 – 128% for 1 mi; 125-150% for 300ms Load icon with flash % load capacity (0-25% 26-50% 51-75%, 76-100%) Sockets Universal*1 or IEC*3 Universal*2 or IEC*6 DV voltage 36V 72V 96V BATTERIES Contage and 200 G-25% 26-50%; 51-75%, 76-100%) 50	Capacity	1 kVA / 900W	2 kVA / 1800W	3 kVA / 2700W	
Rated voltage 1 phase 208 / 220 / 230 / 240 Vac (selectable) Voltage range 110-176/Vac (linear derating between 50% and 100% load); 176-280 Vac (no derating); 280-300/Vac (derating 50%) Frequency 20/60/Hz (auto-sensing); 40 – 70 Hz Power factor ≥ 0.99 OTPUT Voltage range	Operation mode	Standby mode, Bypass mode, AC mode, Bat mode, Battery self test mode, ECO mode, CUCF mode			
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DC voltage36V72V96VBattery type12VDC, VRLA Sealed lead-acid, maintenance free battery, battery life ≥3yearsInbuilt battery3'7Ah6'7Ah8'7AhBackup time at full load6'7Ah8'7AhBackup time at full load	Sockets	Universal*1 or IEC*3	Universal*2 or IEC*6	Universal*2+ Ter or IEC*6	
Battery type12VDC, VRLA Sealed lead-acid, maintenance free battery, battery life \geq 3yearsInbuilt battery3*7Ah6*7Ah8*7AhBackup time at full load-6*8 minsCharging current1A (Long time model 6A)Recharge time90% capacity restored in 3hCharger output voltage40.7±0.681.3±1.2BAT status icon% Battery capacity (0-25% 26-50% 51-75%; 76-100%); When the capacity of battery get low or battery disconnected, the battery status icon will flashSYSTEMSSYSTEMSEfficiency \geq 90% (Mains mode) \geq 91% (Mains mode) \geq 92% (Mains mode) \geq 85% (Battery mode) \geq 86% (Battery mode) \geq 87% (Battery mode) \geq 95% (ECO mode) \geq 96% (ECO mode) \geq 97% (ECO mode)Transfer timeNains mode to battery mode: 0 ms. Inverter mode to bypass mode: 4 ms (typical)ProtectionsShort-circuit, overload, overtemperature, battery discharge and fan testing protectionCommunicationsRS232 (standard) with UPS management software. Surge protection for network/ Fax/Modem; Intelligent slot; USB/RS485/dty contact/SNMP (optional)Display & ControlIcon display: Load, Mute, Fan, Fault, BAT status	BATTERIES				
Inbuilt battery3*7Ah6*7Ah8*7AhBackup time at full load6-8 minsCharging current1A (Long time model 6A)Recharge time90% capacity restored in 3hCharger output voltage40.7±0.681.3±1.2BAT status icon% Battery capacity (0-25% 26-50% 51-75%; 76-100%); When the capacity of battery get low or battery disconnected, the battery status icon will flashSYSTEMSEfficiency \geq 90% (Mains mode) \geq 91% (Mains mode) \geq 92% (Mains mode)Efficiency \geq 95% (ECO mode) \geq 96% (ECO mode) \geq 97% (ECO mode)Transfer timeInverter mode to bypass mode: 4 ms (typical)ProtectionsShort-circuit, overload, overtemperature, battery discharge and fan testing protectionCommunicationsRS232 (standard) with UPS management software. Surge protection for network/ Fax/Modem; Intelligent slot; USB/RS485/dty contact/SNMP (optional)Display & ControlIcon display: Load, Mute, Fan, Fault, BAT status	DC voltage	36V	72V	96V	
Backup time at full load6-8 minsCharging current1A (Long time model 6A)Recharge time90% capacity restored in 3hCharger output voltage40.7 \pm 0.681.3 \pm 1.2108.4 \pm 1.6BAT status icon% Battery capacity (0-25% 26-50% 51-75%; 76-100%); When the capacity of battery get low or battery disconnected, the battery status icon% Battery capacity (0-25% 26-50% 51-75%; 76-100%); When the capacity of battery get low or battery disconnected, the battery status iconSYSTEMS \geq 90% (Mains mode) \geq 91% (Mains mode) \geq 92% (Mains mode)Efficiency \geq 90% (Mains mode) \geq 91% (Mains mode) \geq 92% (Battery mode) \geq 95% (ECO mode) \geq 96% (ECO mode) \geq 97% (ECO mode)Transfer timeInverter mode to battery mode: 0 ms. Inverter mode to bypass mode: 4 ms (typical)ProtectionsShort-circuit, overload, overtemperature, battery discharge and fan testing protectionCommunicationsSurge protection for network/ Fax/Modem; Intelligent slot; USB/RS485/dty contact/SNMP (optional)Display & ControlIcon display: Load, Mute, Fan, Fault, BAT status	Battery type	12VDC, VRLA Sealed	lead-acid, maintenance free batter	ry, battery life ≥3years	
Charging current 1A (Long time model 6A) Recharge time 90% capacity restored in 3h Charger output voltage 40.7±0.6 81.3±1.2 108.4±1.6 BAT status icon % Battery capacity (0-25% 26-50% 51-75%; 76-100%); When the capacity of battery get low or battery disconnected, the battery status icon will flash SYSTEMS * Efficiency ≥ 90% (Mains mode) ≥ 91% (Mains mode) ≥ 92% (Mains mode) ≥ 85% (Battery mode) ≥ 86% (Battery mode) ≥ 87% (Battery mode) ≥ 95% (ECO mode) ≥ 96% (ECO mode) ≥ 97% (ECO mode) Transfer time Mains mode to battery mode: 0 ms. Inverter mode to bypass mode: 4 ms (typical) Protections Short-circuit, overload, overtemperature, battery discharge and fan testing protection Communications RS232 (standard) with UPS management software. Surge protection for network/Fax/Modem; Intelligent slot; USB/RS485/dty contact/SNMP (optional) Display & Control LCD + LED Icon display: Load, Mute, Fan, Fault, BAT status Status information: In non-setting mode and In setting mode	Inbuilt battery	3*7Ah	6*7Ah	8*7Ah	
Recharge time 90% capacity restored in 3h Charger output voltage 40.7±0.6 81.3±1.2 108.4±1.6 BAT status icon % Battery capacity (0-25% 26-50%' 51-75%; 76-100%); When the capacity of battery get low or battery disconnected, the battery status icon will flash SYSTEMS * Efficiency ≥ 90% (Mains mode) ≥ 91% (Mains mode) ≥ 92% (Mains mode) ≥ 85% (Battery mode) ≥ 86% (Battery mode) ≥ 87% (Battery mode) ≥ 95% (ECO mode) ≥ 96% (ECO mode) ≥ 97% (ECO mode) Transfer time Mains mode to battery mode: 0 ms. Inverter mode to bypass mode: 4 ms (typical) Protections Short-circuit, overload, overtemperature, battery discharge and fan testing protection Communications RS232 (standard) with UPS management software. Surge protection for network/ Fax/Modem; Intelligent slot; USB/RS485/dty contact/SNMP (optional) Display & Control Icon display: Load, Mute, Fan, Fault, BAT status	Backup time at full load	6-8 mins			
Charger output voltage 40.7 ± 0.6 81.3 ± 1.2 108.4 ± 1.6 BAT status icon% Battery capacity (0-25% 26-50%' 51-75%; 76-100%); When the capacity of battery get low or battery disconnected, the battery status icon will flashSYSTEMSEfficiency $\geq 90\%$ (Mains mode) $\geq 91\%$ (Mains mode) $\geq 92\%$ (Mains mode) $\geq 85\%$ (Battery mode) $\geq 86\%$ (Battery mode) $\geq 87\%$ (Battery mode) $\geq 85\%$ (Battery mode) $\geq 96\%$ (ECO mode) $\geq 97\%$ (ECO mode)Transfer timeMains mode to battery mode: 0 ms. Inverter mode to bypass mode: 4 ms (typical)ProtectionsShort-circuit, overload, overtemperature, battery discharge and fan testing protectionCommunicationsLCD + LEDLCD + LEDIcon display: Load, Mute, Fan, Fault, BAT statusStatus infomation: In non-setting mode and In setting mode	Charging current	1A (Long time model 6A)			
BAT status icon % Battery capacity (0-25% 26-50%' 51-75%; 76-100%); When the capacity of battery get low or battery disconnected, the battery status icon will flash SYSTEMS ≥ 90% (Mains mode) ≥ 91% (Mains mode) ≥ 92% (Mains mode) ≥ 92% (Mains mode) ≥ 92% (Mains mode) ≥ 95% (Battery mode) ≥ 86% (Battery mode) ≥ 87% (Battery mode) ≥ 95% (ECO mode) ≥ 96% (ECO mode) ≥ 97% (ECO mode) Transfer time Mains mode to battery mode: 0 ms. Inverter mode to bypass mode: 4 ms (typical) Protections Short-circuit, overload, overtemperature, battery discharge and fan testing protection Communications RS232 (standard) with UPS management software. Surge protection for network/ Fax/Modem; Intelligent slot; USB/RS485/dty contact/SNMP (optional) LCD + LED Icon display: Load, Mute, Fan, Fault, BAT status Display & Control Status infomation: In non-setting mode and In setting mode	Recharge time	90% capacity restored in 3h			
BAT status icon disconnected, the battery status icon will flash SYSTEMS ≥ 90% (Mains mode) ≥ 91% (Mains mode) ≥ 92% (Mains mode) Efficiency ≥ 85% (Battery mode) ≥ 86% (Battery mode) ≥ 87% (Battery mode) ≥ 95% (ECO mode) ≥ 96% (ECO mode) ≥ 97% (ECO mode) ≥ 95% (ECO mode) ≥ 96% (ECO mode) ≥ 97% (ECO mode) Transfer time Inverter mode to battery mode: 0 ms. Inverter mode to bypass mode: 4 ms (typical) Protections Short-circuit, overload, overtemperature, battery discharge and fan testing protection Communications RS232 (standard) with UPS management software. Surge protection for network/ Fax/Modem; Intelligent slot; USB/RS485/dty contact/SNMP (optional) LCD + LED Icon display: Load, Mute, Fan, Fault, BAT status Display & Control Status infomation: In non-setting mode and In setting mode	Charger output voltage	40.7±0.6	81.3±1.2	108.4±1.6	
Efficiency ≥ 90% (Mains mode) ≥ 91% (Mains mode) ≥ 92% (Mains mode) ≥ 85% (Battery mode) ≥ 86% (Battery mode) ≥ 87% (Battery mode) ≥ 95% (ECO mode) ≥ 96% (ECO mode) ≥ 97% (ECO mode) Transfer time Mains mode to battery mode: 0 ms. Inverter mode to bypass mode: 4 ms (typical) Protections Short-circuit, overload, overtemperature, battery discharge and fan testing protection Communications Surge protection for network/ Fax/Modem; Intelligent slot; USB/RS485/dty contact/SNMP (optional) LCD + LED Icon display: Load, Mute, Fan, Fault, BAT status Status infomation: In non-setting mode and In setting mode Status infomation: In non-setting mode and In setting mode	BAT status icon				
Efficiency ≥ 85% (Battery mode) ≥ 86% (Battery mode) ≥ 87% (Battery mode) ≥ 95% (ECO mode) ≥ 96% (ECO mode) ≥ 97% (ECO mode) Transfer time Mains mode to battery mode: 0 ms. Inverter mode to bypass mode: 4 ms (typical) Protections Short-circuit, overload, overtemperature, battery discharge and fan testing protection Communications RS232 (standard) with UPS management software. Surge protection for network/ Fax/Modem; Intelligent slot; USB/RS485/dty contact/SNMP (optional) LCD + LED Icon display: Load, Mute, Fan, Fault, BAT status Status infomation: In non-setting mode and In setting mode Status infomation: In non-setting mode and In setting mode	SYSTEMS				
≥ 95% (ECO mode) ≥ 96% (ECO mode) ≥ 97% (ECO mode) Transfer time Mains mode to battery mode: 0 ms. Inverter mode to bypass mode: 4 ms (typical) Protections Short-circuit, overload, overtemperature, battery discharge and fan testing protection Communications RS232 (standard) with UPS management software. Surge protection for network/ Fax/Modem; Intelligent slot; USB/RS485/dty contact/SNMP (optional) LCD + LED Icon display: Load, Mute, Fan, Fault, BAT status Status infomation: In non-setting mode and In setting mode Status infomation: In non-setting mode and In setting mode		≥ 90% (Mains mode)	≥ 91% (Mains mode)	≥ 92% (Mains mode)	
Transfer time Mains mode to battery mode: 0 ms. Inverter mode to bypass mode: 4 ms (typical) Protections Short-circuit, overload, overtemperature, battery discharge and fan testing protection Communications RS232 (standard) with UPS management software. Surge protection for network/ Fax/Modem; Intelligent slot; USB/RS485/dty contact/SNMP (optional) LCD + LED Icon display: Load, Mute, Fan, Fault, BAT status Status infomation: In non-setting mode and In setting mode	Efficiency	≥ 85% (Battery mode)	≥ 86% (Battery mode)	≥ 87% (Battery mode)	
Transfer time Inverter mode to bypass mode: 4 ms (typical) Protections Short-circuit, overload, overtemperature, battery discharge and fan testing protection Communications RS232 (standard) with UPS management software. Surge protection for network/ Fax/Modem; Intelligent slot; USB/RS485/dty contact/SNMP (optional) LCD + LED Display & Control Icon display: Load, Mute, Fan, Fault, BAT status Status infomation: In non-setting mode and In setting mode		≥ 95% (ECO mode)	≥ 96% (ECO mode)	≥ 97% (ECO mode)	
Communications RS232 (standard) with UPS management software. Surge protection for network/ Fax/Modem; Intelligent slot; USB/RS485/dty contact/SNMP (optional) LCD + LED Display & Control Status infomation: In non-setting mode and In setting mode	Transfer time				
Communications Surge protection for network/ Fax/Modem; Intelligent slot; USB/RS485/dty contact/SNMP (optional) LCD + LED LCD + LED Display & Control Icon display: Load, Mute, Fan, Fault, BAT status Status infomation: In non-setting mode and In setting mode	Protections	Short-circuit, overload, overtemperature, battery discharge and fan testing protection			
Display & Control Icon display: Load, Mute, Fan, Fault, BAT status Status infomation: In non-setting mode and In setting mode	Communications				
Display & Control Status infomation: In non-setting mode and In setting mode	Diantau & Control	LCD + LED			
Status infomation: In non-setting mode and In setting mode		Icon display: Load, Mute, Fan, Fault, BAT status			
2 light in panel: Inverter light and Fault light with warning code		Status infomation: In non-setting mode and In setting mode			
		2 light in panel: Inverter light and Fault light with warning code			

OTHERS				
Operation Temp.	0 – 40°C			
Storage temperature	-25 ~ 55°C (without battery)			
Relative humidity	0 ~ 95% (non-condensing)			
Altitude	≤ 1000m, derating 1% for each additional 100m			
Fan	Convection cooling fan			
IP rating	IP 20			
Noise level at 1m	≤ 50dB			
Dimensions (W*D*H),mm	144*317*216/144*336*216	191*419*335	191*419*335	
Net weight (kg)	12.8/6	23.1/10.5	29.4/11	

Derate capacity to 90% when the output voltage is adjusted to 208 Vac

• All specifications are subject to change without notice

