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PRODUCT CATALOG

Intelligent Manufacturer of Data Center,
Power and New Energy.

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Haode IoT Technology (Shenzhen) Co., Ltd.

Create the Future with Care

To be a high-quality, innovative and reliable intelligent manufacturing enterprise in data center power and new energy.

20 Years

Specialized industry expertise
Li/Na battery energy sector

100+

Honors
Well-known industry brand
Innovative technology enterprise
National High-Tech Enterprise

120+

Intellectual property
Invention patents and software copyrights.

10%

Annual R&D investment
(as % of revenue)

50%

R&D and technical staff

2+

Joint R&D
Shenzhen University, CAICT



ABOUT US

ABOUT Keloride

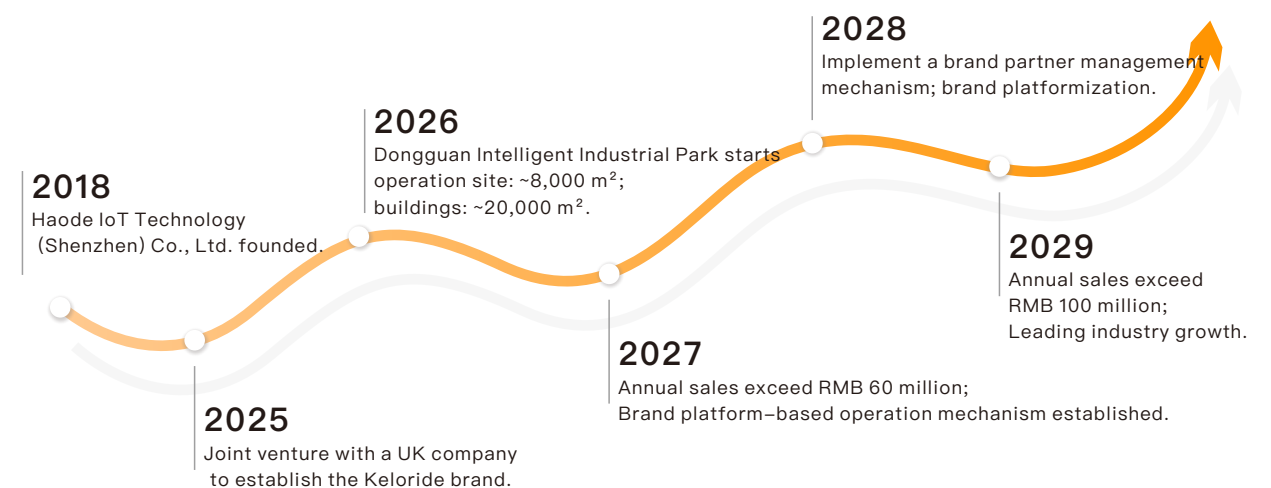
Keloride is operated and managed by Haode IoT Technology (Shenzhen) Co., Ltd. The brand was founded in 2006, and Keloride UK was registered in 2015.

In 2025, we are building the Dongguan Intelligent Industrial Park (site: ~8,000 m²; buildings: ~20,000 m²), covering sheet-metal stamping, PCDA mainboard SMT, and final assembly.

It includes a National CNAS-accredited laboratory (~1,000 m²), an Engineering & Technology Center, and a Data Center Power Research Institute, and is planned to start operation by the end of 2026.

We focus on Li/Na battery energy storage power supplies, PV energy storage systems, industrial power & energy, and network power & energy, serving power, aviation, semiconductors, petrochemicals, and rail transit.

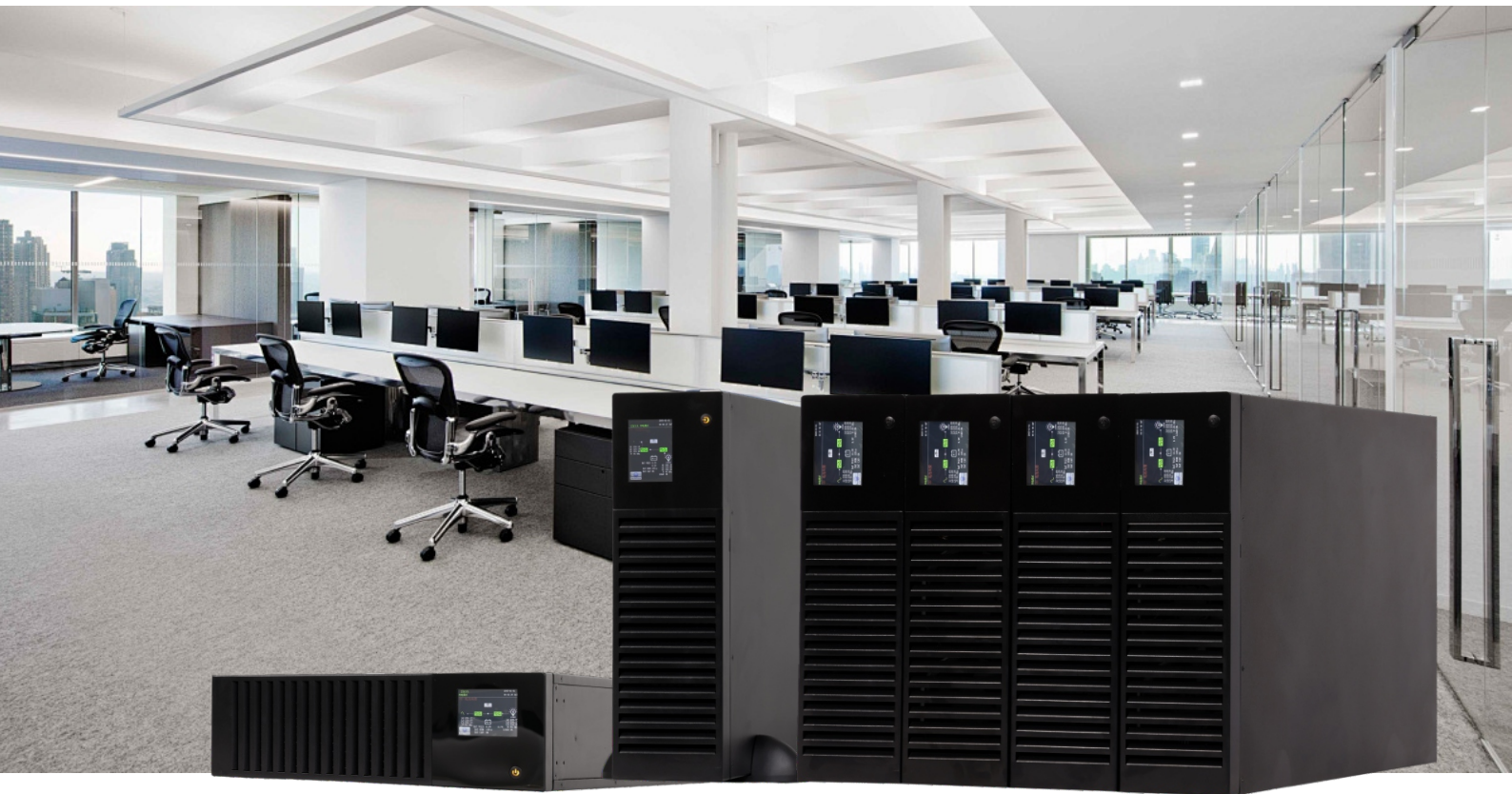
Development Roadmap ▼



Corporate Culture ▼

- Mission** Rooted locally, growing together, vision global.
- Vision** To be an industry benchmark – our shared pursuit.
- Core Values** Green power & energy; Innovation creates unlimited value.

KELORIDE



Product Overview

The Li-ion UPS 33-L Series combines smart control, high efficiency, and flexible configuration for multiple power scenarios. Models 10K–30K use an auto-rotating LCD. DSP control delivers PF 1.0 output, and ECO mode improves energy saving. Dual AC inputs are supported. Battery quantity is adjustable, and battery packs can be shared. Up to 4 units can run in parallel for long backup time, and generator input is supported. Three-stage charging helps extend battery life. EPO provides emergency power-off protection. Multiple interfaces (SNMP, USB, RS-232) make monitoring and expansion easy.

Applications

Office / Government / Servers / Schools / Hospitals

Key Features

- Auto-rotating LCD (10–30KVA only)
 - DSP control with PF 1.0 output
 - Power factor correction (PFC)
 - 50 Hz / 60 Hz converter mode
 - ECO energy-saving mode
 - EPO (Emergency Power Off)
 - Generator compatible
- Dual AC input
 - 3-stage charging
 - Adjustable battery quantity
 - Shared battery bank supported
 - Optional isolation transformer
 - Up to 4 units in parallel operation
 - SNMP / USB / RS-232

Li-ion UPS 33-L Series

Model		3310LRS	3320LRS	3330LRS	3340LRS	3360LRS
Phase		3P in 3P out/3P in 1P out/1P in 1P out			3P in 3P out	
Capacity		10kVA/10kW	20kVA/20kW	30kVA/30kW	40kVA/40kW	60kVA/60kW
Parallel capability		4				
Input						
Rated voltage		3×380VAC(3Ph+ N+PE)				
Voltage range		190—520 VAC (3Ph) @ 50% load; 305—478 VAC (3-phase) @ 100% load				
Frequency range		46~54Hz or 56 ~64Hz				
Power factor		≥ 0.99@100%load				
Output						
Output voltage		3×360/380/400/415VAC(3Ph+N)				
Output accuracy (battery mode)		± 1%				
Frequency range (sync)		46—54Hz or 56—64Hz				
Frequency range (battery mode)		50Hz ± 0.1 Hz or 60 Hz± 0.1 Hz				
Crest factor		3:1(max)				
THD		THD: ≤2% (linear load); ≤3% (non-linear load)				
Transfer time	Utility → Battery	0				
	Inverter → Bypass	0				
Waveform (battery mode)		Pure sine wave				
Overload	Utility mode (AC)	100 ~110% 60min ,110 ~125%10min ,125% ~150%1min ; >150%immediate protection				
	Battery mode	100 ~110% 60min ,110 ~125%10min ,125% ~150%1min ; >150%immediate protection				
Efficiency						
Utility mode (AC)		95.5%				
ECO mode		98.5%				
Battery mode		94.5%				
Battery						
Battery type		Depends on application				
Quantity		16—20Adjustable	32 —40Adjustable			
Charging current (max.)		1A~12A(Adjustable)			1A~16A(Adjustable)	1A~18A(Adjustable)
Charging voltage		± 13.65VDC×N(N=8—10)	± 13.65 VDC×N ±1%(N=16—20)			
Alarm						
Battery mode		Buzzer beeps once every 4 seconds				
Low battery		Buzzer beeps once every 1 second				
Overload		Buzzer beeps twice every 1 second				
Fault		Continuous buzzer				
Physical						
Dimensions (WxDxH) mm		680 x 438 x 133[3U]				797 x 438 x 176[4U]
weight (kg)		26	28	30	32	45
Environment						
Operating temperature		0~40℃				
Relative humidity		0—95% RH (non-condensing)				
Noise (1 m in front)		≤ 62dB		≤ 65dB	≤ 65dB	
Management						
RS-232/USB		Supports Windows 8 series, Linux, and Mac OS				
Optional SNMP		Power management via SNMP card and web browser				

Note: When output voltage is set to 3 × 360 VAC, output capacity is derated to 90%.



Product Overview

The Li-ion UPS 11-L Series is a single-phase in / single-phase out UPS with DSP digital control, online double-conversion topology, and a three-level inverter design. It integrates the lithium battery pack with UPS control, charging, and communication into one system, delivering high reliability and multiple functions. Overall efficiency reaches 94.5% or higher, making it a milestone in high-frequency online UPS design. Typical applications include IDC (Internet Data Center), networks, servers and workstations, control systems, communication systems, offices, PCs, and more.

Applications

Office / Government / Servers / Schools / Hospitals

Key Features

- DSP + online double-conversion; 3-level inverter for complex loads.
- Stable output; PF up to 1.0 (1-10 kVA).
- Efficiency up to 94.5%; supports 208/220/230/240 VAC, 50/60 Hz.
- Wide input range 110-300 VAC (full load) to save battery life.
- High-frequency rectifier + PFC; input PF ≥0.99.
- Strong overload / short-circuit capability.Stable under high non-linear load impact.
- Adjustable charging 1-12 A; constant/float/equalize modes.
- RS232 + USB monitoring; LCD/LED display.

1-10KVA

Model	1101LRS	1102LRS	1103LRS	1106LRS	1110LRS
Capacity	1KVA/1KW	2KVA/2KW	3KVA/3KW	6KVA/6KW	10KVA/10KW
Input					
Rated voltage	208/220/230/240Vac,L+N+PE				
Voltage range	110–300Vac				
Frequency range	40–70Hz				
Power factor	≥0.99				
THDi	≤ 4% (linear); ≤ 5% (non–linear)			≤ 5% (linear); ≤ 8% (non–linear)	
Output					
Rated voltage	208/220/230/240Vac,L+N+PE				
Voltage regulation	±1%				
Frequency	50/60Hz±0.1%				
THDV	≤ 2% (linear); ≤ 5% (non–linear)			≤ 2% (linear); ≤ 5% (non–linear)	
Transfer time	0				
Waveform	Pure sine wave				
Crest factor	3:1 (max)				
Overload capability (Utility mode)	102%–110%: 30 min; 110%–130%: 10 min; 130%–150%: 30 s; >150%: 200 ms			102%–105%: 30 min; 105%–125%: 10 min; 125%–150%: 30 s; >150%: 500 ms	
Overload capability (Battery mode)	102%–110%: 1 min; 110%–130%: 10 s; 130%–150%: 3 s; >150%: 200 ms			102%–105%: 10 min; 105%–125%: 1 min; 125%–150%: 10 s; >150%: 500 ms	
Efficiency					
Utility mode (AC)	94.5%	95.5%	95.5%	95%	
Battery mode	88.5%	91.5%	91.5%	94.5%	
ECO mode	98%				
Battery					
Nominal voltage	48Vdc	48Vdc	48Vdc	192Vdc/240Vdc	
Battery quantity	External				
Charging current	1–12A				
Management					
Ports	RS232 / USB / SNMP card (optional) / Dry contacts (optional)				
Environment					
Operating temperature	0~40℃				
Relative humidity	0~95%RH (non–condensing)				
Noise (1 m in front)	≤50dB				
Altitude	Up to 1,000 m without derating (at rated output).				
Physical					
Dimensions (WxDxH) mm	440x379x86	440x450x86	440x450x86	440x487x86	440x487x86
Weight (kg)	6	8	10.8	11	12



Product Overview

The Li-ion UPS 33-L Series is highly integrated with high power density, saving over 10% installation space. It supports optional neutral-less batteries and is compatible with Li-ion systems for flexible expansion. Multi-level protections ensure stable operation in harsh environments. A large color touch screen simplifies operation and maintenance. High-integration PCB design reduces assembly errors. Robust thermal design allows 70% load operation with one fan failed, improving availability.

Applications

Government / Finance / Telecommunications / Education / Transportation / Meteorology
Broadcasting & TV / Industry & Commerce / Tax Services / Healthcare / Energy & Power

Key Features

- High power density; saves >10% footprint
- Value-driven; optional neutral-less battery; Li-ion ready
- Harsh-environment ready; multi-level protection
- Color touch LCD; easy HMI
- High-integration PCB; fewer assembly errors
- Robust cooling; 70% load with one fan failed

200–600 kVA Online Tower

	Model	33200LS	33300LS	33400LS	33500LS	33600LS
	Capacity	200KVA/200KW	300KVA/300kW	400KVA/400KW	500KVA /500kW	600KVA /600KW
Main input	Wiring	3Ph+N+PE				
	Input voltage	380/400/415 VAC (line); 220/230/240 VAC (phase)				
	Input frequency	50/60Hz				
	Power factor	>0.99				
	THDi	THDi<2%(100% linear load)				
	Voltage range	304—478 VAC (line) full load; 228—304 VAC (line) linear derating (load 100% → 50%)				
	Frequency range	40—70Hz				
Battery	Battery voltage	3—wire: ±240 VDC (30—50 cells adjustable) Optional 2—wire: 480 VDC (30—50 cells adjustable)				
	Charging power	Max. 20% × active power				
	Charging voltage accuracy	± 1%				
Bypass	Bypass voltage	380/400/415 VAC (line) ; 220/230/240 VAC (phase)				
	Voltage range	Adjustable; default -20% to +15%; Upper limit: +10% / +15% / +20% / +25%; Lower limit: -10% / -15% / -20% / -30% / -40%				
	Overload capability	125%: continuous 125% < load < 130%: ≥ 10 min 130% < load < 150%: ≥ 1 min >150%: 300 ms	110%: continuous 101% < load < 125%: ≥ 5 min 125% < load < 150%: ≥ 1 min >150%: 1 s,			
Output	Rated output voltage	380/400/415VAC (line);220/230/240 VAC (phase)				
	Rated frequency	50/60Hz				
	Output power factor	1				
	Voltage accuracy	± 1.0%				
	Dynamic voltage response	<5%(20%—80%—20%step load)				
	Recovery time	<20ms (0%— 100%— 0%step load)				
	THDu	<1%(linear),<5%(non—linear)				
	Inverter overload	110%: transfer to bypass after 1 h; 125%: after 10 min; 150%: after 1 min; >150%: after 200 ms				
	Frequency accuracy	0.1%				
	Sync tracking range	Adjustable:±0.5 Hz to ±5 Hz (default ±3 Hz)				
	Sync tracking rate	Adjustable: 0.5—3 Hz/s (default 0.5 Hz/s)				
	Crest factor	3:1 (max)				
	3—phase accuracy	120 °± 0.5 °				
System	System efficiency	Main mode ≥ 97%; Battery mode ≥ 97%				
	Display	LCD+LED+7—inch display	LCD+LED+10—inch display			
	Safety standards	IEC62040—1,IEC60950—1				
	EMC	IEC62040—2;IEC61000—4—2(ESD);IEC61000—4—3(RS);IEC61000—4—4(EFT);IE C61000—4—5(Surge)				
	IP rating	IP20				
	Standard	USB, RS—232, RS—485, dry contact card, battery cold start, dust filter				
	Options	SNMP card, dry contacts card, parallel kit, lightning protection kit, top air outlet kit, APP WiFi/Bluetooth				
	Cable entry	Front top entry; ptional front bottom entry			Compatible with top/bottom entry	
	Working environment	0—40 °C (operating); -25—70 °C (storage); 0—95% RH (non—condensing)				
	Noise (1 m in front)	68 dB @ 100% load; 65 dB @ 45% load				
Dimensions	Cabinet (W×D×H) mm	600×750×1600	600×750×2000	600×850×2000	1200×850×2000	
	Module (W×D×H) mm	440×475×140				



Product Overview

The UPS 11-H Series is a newly designed, next-generation general-purpose power protection UPS. With a tower/rack compatible structure and online double-conversion topology, it effectively handles power outages, over/under-voltage, sags, surges, voltage fluctuations, harmonic distortion, noise interference, and frequency variations, providing clean and stable power for user equipment. DSP control improves reliability, and the compact high-density design suits various loads.

Applications

IT loads for government, finance, education, and small/medium enterprises and institutions.

Key Features

- Online double-conversion design with microprocessor control.
- LCD display for easy operation and maintenance.
- Wide input voltage: 110–300 VAC, suitable for poor grid conditions.
- Input power factor ≥ 0.99; green power design.
- Output power factor 0.8 / 0.9 / 1.0 optional; strong load capability.
- Utility-mode efficiency up to 94%+; energy saving.
- Long-runtime models: charging current up to 12 A; multi-stage smart charging management.
- Complete protection: under/over-voltage, short circuit, over-temperature, etc.
- Standard RS232; optional SNMP card and USB.

1–40KVA

Model		1101HS	1101H	1102HS	1102H	1103HS	1103H	1106HS	1106H	1110HS	1110H	1115HS	1120HS	1130HS	1140HS		
		1101HRS	1101HR	1102HRS	1102HR	1103HRS	1103HR	1106HRS		1110HRS		1115HRS	1120HRS	1130HRS	1140HRS		
Capacity		1KVA		2KVA		3KVA		6KVA		10KVA		15KVA	20KVA	30KVA	40KVA		
Input	Input wiring	L+N+PE															
	Rated voltage	208/220/230/240VAC															
	Voltage range	110-300VAC										120-300VAC					
	Frequency range	44-56Hz @50Hz/54Hz-66Hz@60Hz															
	power factor	≥0.99															
Output	Output wiring	L+N+PE															
	Output voltage	208/220/230/240VAC															
	Output accuracy	±1%															
	Output frequency	Online mode: follows utility frequency; Battery mode: 50/60 Hz ±0.05															
	THDv	≤ 2% (linear load); ≤ 5% (non-linear load)										THD < 2% (full linear load)					
	power factor	0.8											0.7	0.8			
	Transfer time	Utility → Battery: 0 ms; Inverter → Bypass: 4 ms													Utility → Battery: 0 ms Inverter → Bypass: 0 ms		
	Overload capability	Utility mode: 30 min@102%–110%load;10 min@110%–130%load;30 s@130%–150%load; 200 ms@>150%load										105–125%: transfer to bypass after 1 min; 125–150%: transfer to bypass after 10 s; >150%: transfer to bypass after 0.5 s;		105%–125%load: transfer to bypass after 120mins			
		Battery mode: 30 min@102%–110%load;10 min@110%–130%load;30 s@130%–150%load;200 ms@>150% load										For 30 kVA (16/18-battery mode): 105–125%: transfer to bypass after 1 s; >125%: transfer to bypass after 0.1 s.		125–150% load: transfer after 30 s; >150% load: transfer to bypass after 0.5 s			
Efficiency (utility mode)		>94.5%		>95.5%		>95.5%		>95%		>95%		>94%					
Battery	Battery voltage	36Vdc	Built-in 2x12V 7AH batteries	72Vdc	Built-in 4x12V7AH batteries	96Vdc	Built-in 6x12V7AH batteries	192Vdc	Built-in 16x12V7AH batteries	192Vdc	Built-in 16x12V7AH batteries	±192Vdc(16/18/20cells adjustable)			± 192 VDC(30–40 cells adjustable)		
	Charging current	1-12A(max)	1A	1-12A(max)	1A	1-12A(max)	1A	1-12A(max)	1A	1-12A(max)	1A	1-4A(max)	1-4A(max)	1-4A(max)	1-12A(max)		
Display		LCD display shows mode/load/battery/input/output, etc.															
Communication		Standard RS232; optional SNMP card and USB															
Environment	Operating temperature	0-40℃															
	Relative humidity	20%-95%RH (non-condensing)															
	Altitude	≤1000 m; above 1000 m, derate 1% per 100 m; max. 4000 m (ref. IEC 62040)															
Dimensions	Tower: L×W×H (mm)	145x315x319		145x400x219		145x400x219		190x454x322		190x454x700		190x454x322		190x454x700	240x500x460	248x500x616	440x900x133
Weight (kg)		4.1	8.3	5.7	14.1	6.4	21	9.8	43.2	11.2	54.6	16.9	25	30	34		
Dimensions	Rack: L×W×H (mm)	438x315x86.8	438x315x86.8	438x400x86.8	438x400x86.8	438x400x86.8	438x500x86.8		/	438x500x86.8	/	600x440x130		600x440x260		440x900x133	
Weight (kg)		4.8	9.8	22.6	8	8.2	21	8.8	/	11	/	25	30	32	34		

Note:Specifications are subject to change without prior notice.



Product Overview

The UPS 31-H Series is a high-performance UPS designed for modern data centers, telecom base stations, medical equipment, industrial automation, and other critical applications. It supports both rack and tower installation. With online double-conversion design and pure sine wave output, it integrates advanced high-frequency technology, digital control, and multiple protections to deliver stable, clean, and uninterrupted power.

Applications

Telecom, finance, education, transport, broadcast & TV, healthcare, manufacturing, etc.—safe, stable, reliable, eco-friendly power for critical loads.

Key Features

- True online double-conversion.
- Up to 3 units in parallel (N+X, with kit).
- Battery strings: 16–20 (10–30 kVA); 30–40 (40 kVA), on-site configurable.
- Charging current: 1–4 A (10–30 kVA); up to 12 A (40 kVA), on-site configurable.
- Auto restart when utility returns after battery is depleted.
- Full protections: overload, short circuit, over-temp, low battery, overcharge, etc.
- Optional maintenance bypass (no interruption).
- Real-time LCD status/parameters.
- RS232 + optional SNMP network monitoring (PC software).

10–40KVA

Model	3110HS	3115HS	3120HS	3130HS	3140HS
	3110HRS	3115HRS	3120HRS	3130HRS	3140HRS
Input					
Voltage range	304Vac ~456Vac (3-phase voltage)				
Rated voltage	3 x 380/400/415 VAC (3Ph+N)				
Frequency range	40Hz–70Hz				
Power factor	≥0.99				
Output					
Output voltage	220Vac×(1±1%)				
Voltage regulation	± 1%				
Frequency range	50Hz×(1±0.1%); Follows utility within sync range				
Crest factor	3 : 1 (max)				
THD	≤ 2% THD (full linear load)				
Power factor	0.9	0.8	0.9	0.8	0.8
Transfer time (Utility → Battery)	0ms				
Transfer time (Inverter → Bypass)	0ms				
Overload capacity	105–125%: transfer to bypass after 1 min; 125–150%: after 10 s; >150%: after 0.5 s. (For 30 kVA in 16/18–battery mode: 105–125%: after 1 s; >125%: after 0.1 s.)				105%–125%load,10 min; 125%–150%load , 30 s; > 150%load ; 0.5 s
Efficiency					
Overall efficiency	≥94%				
Battery					
Long-run model	12V				
	16–20 cells				30–40cells
	1–4A(MAX)				1–12A(MAX)
Physical					
Tower dimensions (L×W×H) mm	240×500×460			248×500×616	440 x 133 x 900
Weight (kg)	22	25	25	30	34
Rack dimensions (L×W×H) mm	440×700×130(3U)		660×440×260(6U)		440 x 133 x 900
Weight (kg)	23	23	38	40	34
Environment					
Operating temperature	0 ~ 40°C(Battery life will shorten at ambient temperatures above 25°C.)				
Relative humidity	20%~90%RH (non-condensing)				
Altitude	< 1000m				
Noise (1 m in front)	< 60dB				
Management					
Intelligent RS–232/USB; optional SNMP card					



10–200KVA

Model		3310HS	3320HS	3330HS	3340HS	3360HS	3380HS	33100HS	33120HS	33160HS	33180HS	33200HS	
Parallel capability		4 units											
Input													
Phase		3Ph+N+PE			3Ph+N+PE								
Rated voltage		3 x 360/380/400/415 VAC (3Ph+N+PE)											
Voltage range		110—300 VAC @ 50% load; 176—276 VAC @ 100% load											
Frequency range		40 ~ 70Hz											
Power factor		0.99@100%load											
THDi		Linear load <4%											
Output													
Output voltage		3 x 360/380/400/415 VAC (3Ph +N)											
Output accuracy (battery mode)		± 1%											
Frequency range	Sync range	46—54Hz or 56—64Hz											
	Battery mode	50/60 Hz±1%											
Crest factor		3 : 1 (max)											
THD		2% (linear load); 5% (non-linear load)											
Transfer time	Utility → Battery	0ms											
	Inverter → Bypass	0ms											
Waveform		Pure sine wave											
Power factor		0.9		1									
Overload capacity		100—110% 60min , 111—125% 10min , 126%—150% 1min ; >150% 400ms											
Bypass													
Rated voltage		3 x 360/380/400/415 VAC (3Ph +N)											
Voltage range		305VAC ~ 457VAC											
Frequency range(Sync range)		46 ~ 54Hz or 56 ~ 64Hz											
Overload capacity		>130%@1min											
Efficiency													
AC mode		95.5%											
ECO mode		98.5%											
Battery mode		94.5%											
Battery													
Long-run model	Battery type	Depends on application											
	Battery quantity	16—20 cells			32—40cells								
	Max. charging current	4.0 A ± 10%		1—12 A ±10%; preset: 1 A	1—18A ±10%; preset: 1 A	2—24A ±10%; preset: 2 A	2—36A ±10%; preset: 3A	3—54A±10%; preset: 3A					
	Charging voltage	13.65 VDC x battery quantity ±1%			± 13.65 VDC x N ± 1% (N = 16—20)								
Physical													
Long-run model	D×W×H (mm)	592x250x576			815x300x1000			796X360X1010		1000 X 430 X 1200		1000 X 600 X 1200	
	Weight (kg)	38	40	64	68	108	124	200	200	265	265	265	
Environment													
Operating temperature		0~40 °C (Battery life will be reduced when ambient temperature is > 25°C)											
Relative humidity		< 95%RH (non-condensing)											
Altitude		< 1000m ; Above 1,000 m, derate output power by 1% per 100 m											
Noise (1 m in front)		< 60dB		< 65dB		< 75dB							
Management													
Intelligent RS—232/USB; optional SNMP card													

Product Overview

The UPS 33–H Tower Series is a high–performance power protection solution. It adopts advanced high–frequency technology and modern industrial design to provide stable and reliable power, delivering a better user experience. The 10–60 kVA models also support a rack–style design, making deployment and maintenance easier.

Applications

Telecom, finance, education, transport, broadcast & TV, healthcare, manufacturing, etc.—safe, stable, reliable, eco–friendly power for critical loads.

Key Features

- True double–conversion technology
- DSP technology ensures high performance
- Full–phase active power factor correction (PFC)
- 50/60 Hz frequency converter mode
- ECO energy–saving mode
- EPO (Emergency Power Off)
- Generator compatible
- Dual AC input
- Parallel operation supported; shared battery bank supported
- Three–stage charging design to optimize battery performance
- Adjustable battery quantity
- Standard maintenance bypass
- Walk–in function



Product Overview

The UPS 33-M Series is a modular UPS with N+X redundancy. It scales from 20 to 600 kVA using 20/30/50 kVA modules, enabling flexible configuration and step-by-step investment. It protects critical loads from outages, over/under-voltage, sags, surges, harmonics, noise, and frequency variations.

Applications

Government / Finance / Telecommunications / Education / Transportation/ Meteorology
Broadcasting & TV / Industry & Commerce / Tax Services / Healthcare / Energy & Power

Key Features

- Full digital control; stable performance.
- Space-saving design for data rooms.
- Hot-swap modules; near-zero downtime.
- MTBF up to 250,000 h.
- Flexible redundancy; ≥2 spare modules up to 99.999% reliability.
- Fault module isolates instantly.
- Distributed bypass with load sharing.
- Adjustable charging; auto CC/CV/float.
- Color touch LCD (CN/EN); module LCD/LED.
- Front-panel EPO.

UPS-3320-200M UPS-3330-300M

Model	3320-60M15U	3320-120M30U	3320-200M42U	3330-90M15U	3330-120M 30U	3330-180M30U	3330-300M42U
Phase	3P in 3P out						
Cabinet capacity	60KW	120KW	200 KW	90KW	120KW	180KW	300KW
Battery type	External battery	External battery	External battery	External battery	External battery	External battery	External battery
Power module capacity	20KVA/20KW	20KVA/20KW	20KVA/20KW	30KVA/30KW	30KVA/30KW	30KVA/30KW	30KVA/30KW
Max. power modules	3	6	10	3	4	6	10
Max. battery module sets	3	-	-	3	-	-	-
Input							
Rated voltage	3 x 380VAC/400VAC/415VAC(3Ph+N)						
Voltage range	100%load 305 ~ 478 VAC ; <70% load 208 ~ 304VAC						
Rated frequency	50/60Hz(auto select)						
Frequency range	40~70Hz						
Power factor	100%load> 0.99 ; 50% load >0.98						
THDi	< 3% @ 100% load						
Output							
Rated voltage	3 x 380VAC/400VAC/415VAC (3Ph+N)						
Voltage regulation (steady state)	≤ ± 1%typ. (balanced load) ; ≤ ± 2% typ.(unbalanced load)						
Voltage regulation (dynamic)	≤± 5% typ.						
Rated frequency	50/60Hz						
Frequency range(Sync range)	46Hz-54Hzor 56Hz-64Hz						
Overload capability	110% 60min , 120% 10min , 150% 60s , >150% 200ms						
THD	≤ 1.5% THD (linear load) ;≤ 4% THD (non-linear load)						
Efficiency	Up to 94.5%						
Battery / Charging							
Rated voltage	± 216V (12V x 36 cell)						
Max. voltage	± 240V (12V x 40 cell)						
Min. voltage	± 192V (12V x 32 cell)						
Float voltage	2.25V / cell						
Equalize voltage	2.35V / cell						
Temperature compensation	Supported						
Max. charging current	6A	6A	6A	8A	8A	8A	8A
Physical							
Cabinet dimensions (DxWxH) mm	1100 x 514 x 763	1100x600x1475	1100x600x2010	1100x514x763	1100x600x1475	1100 x 600 x 1475	1100x600x2010
Cabinet weight (kg)	182	434.5	625	183.5	335	437.5	620
Environment							
Working environment	0~40℃;0~95%RH (non-condensing)						
Altitude	<1000m rated power						
IP rating	Ip20						
Management							
RS-232/USB	Supports Windows ® 2000/2003/XP/Vista/2008, Windows ® 7, Linux and MAC						
SNMP(optional)	Power management: supports SNMP and network management.						
Safety standards							
Safety	IEC/EN60950-1; IEC/EN62040-1						
EMC	IEC/EN62040-2 Category C3						



Product Overview

The UPS 33-M Series is a modular UPS with N+X redundancy. It scales from 20–600 kVA using 20/30/50 kVA modules, enabling flexible configuration and step-by-step investment. It protects against outages, over/under-voltage, sags, surges, harmonics, noise, and frequency variations.

Applications

Government / Finance / Telecommunications / Education / Transportation / Meteorology
Broadcasting & TV / Industry & Commerce / Tax Services / Healthcare / Energy & Power

Key Features

- Full digital control; stable and reliable
- Space-saving design for data rooms
- Hot-swap modules; near-zero downtime
- MTBF >250,000 h
- Flexible redundancy; ≥2 spare modules up to 99.999% availability
- Fault module isolates instantly
- Distributed bypass with load sharing
- Adjustable charging; auto CC/CV/float
- Color touch LCD (CN/EN); module LCD/LED
- Front-panel EPO

UPS-3350-600M

Model	3350-300MS 42U	3350-300M 42U	3350-350M 42U	3350-400M 42U	3350-500M 42U	3350-600M 42U
Phase	3P in 3P out					
Cabinet capacity	300KW	300KW	350KW	400KW	500KW	600KW
Battery type	External battery					
Power module capacity	50KVA/50KW					
Max. power modules	6	6	7	8	10	12
Input						
Rated voltage	3 x 380/400/415 VAC (3Ph+N)					
Voltage range	-20% ~ +15%					
Rated frequency	50/60 Hz (auto select)					
Frequency range	40Hz~70Hz					
Power factor	100%load >0.99 , 50%load >0.98					
THDi	<4% @ 100%load					
Output						
Rated voltage	3 x 380/400/415 VAC (3Ph+N)					
Voltage regulation (steady state)	≤ ± 1%typ. (balanced load) ; ≤ ± 2% typ.(unbalanced load)					
Rated frequency	50/60Hz					
Frequency range(Sync range)	46Hz~54Hzor56Hz~64Hz					
Overload capacity	1h≤ 110% , 111% ~125%为10min , 126% ~150%为1min , >150%为200ms					
THDv	≤ 2% THD (linear load) ;≤ 4% THD (non-linear load)					
Efficiency	95.50%					
Battery / Charging						
Rated voltage	±192V ~ ±240V (optional)					
Max. voltage	± 240V (12V x 40cell)					
Min. voltage	±192V (12V x 32cell)					
Float voltage	2.28V / cell (2.25 V~ 2.33 Voptional)					
Equalize voltage	2.35V/ cell					
Temperature compensation	Supported					
Max. charging current (per power module)	12A (adjustable)					
Physical						
Cabinet dimensions (DxWxH) mm	850 x 600 x 2010	1065 x 600 x 2010	1065 x 600 x 2010	1065 x 600 x 2010	1065 x 1000 x 2010	1065 x 1000 x 2010
Cabinet weight (kg)	490	545	654	932	1020	1130
Environment						
Working environment	0~40℃					
Relative humidity	0~95% RH (non-condensing)					
Altitude	< 1,000 m at rated power; above 1,000 m, derate output power by 1% per 100 m					
IP rating	Ip20					
Management						
RS-232/USB	Supports Windows ® 2000/2003/XP/Vista/2008, Windows® 7, Linux and MAC					
SNMP(optional)	Power management: supports SNMP and network management.					
Safety standards						
Safety	IEC/EN 62040-1					
EMC	IEC/EN 62040-2 Category C3					



Product Overview

The UPS 11-G Series (1-phase in / 1-phase out) is a high-performance online sine-wave UPS for China’s grid and high-reliability network loads. It suits network rooms, small smart devices, and precision instruments, especially under harsh grid conditions.Optional: isolation transformer, external charger, SNMP adapter.

Applications

Network centers, server clusters, telecom, banking systems, hospitals, government, securities, finance, industrial process control, routers, switches, office automation, etc.

Key Features

- Design optimized for grid conditions to improve system availability
- High-reliability design to ensure stable operation of network systems
- Intelligent battery management to extend battery life
- Complete protection functions for high stability and reliability
- Advanced digital parallel control technology
- User-friendly HMI: LCD + LED and network management for easier monitoring

1-30kVA

Model	1101GS	1102GS	1103GS	1104G/GS	1106G/GS	1108GS	1110GS	1115GS	1120GS	1130GS
Capacity	1KVA	2KVA	3KVA	4KVA	6KVA	8KVA	10KVA	15KVA	20KVA	30KVA
AC input										
Input voltage	Single-phase 160–275 VAC (optional AVR: 110–300 VAC)									
Input frequency	50(60) Hz ±5%									
Bypass input										
Voltage range	Single-phase 160–275 VAC (optional AVR: 110–300 VAC)									
Frequency range	50(60) Hz ±5%									
Max. current	6A	12A	18A	24A	34A	45A	56A	82A	110A	160A
AC output										
Output voltage	Single-phase 220VAC									
Output frequency	50(60) Hz									
Voltage regulation	±1%									
Frequency stability	±0.5%(when utility fails)									
Waveform	SPWM sine wave									
Power factor	0.8 (lagging) (optional 0.9)									
THD	<3%(linear load)									
Transient response	Voltage change ≤ 3% (100% load step on/off)									
Crest factor	3:1 (max)									
Battery										
Battery voltage	48VDC optional 192VDC)			192VDC						
Battery type	Maintenance-free lead-acid battery									
Recharge time	8–10 hours to reach 90% capacity									
Alarms										
Utility failure	Buzzer beeps once every 4 seconds									
Utility abnormal	Buzzer beeps once every 4 seconds; utility mode indicator flashes									
Battery low	Buzzer beeps once every 1 second; battery mode indicator flashes; low-battery LED on									
Overload	Overload LED on; continuous buzzer									
UPS fault	Fault LED on; continuous buzzer									
Internal protection										
Battery	Low-battery auto shutdown; auto restart when utility returns; miniature circuit breaker protection									
Overload	110%: normal; 125%: transfer to bypass after 10 min; 150%: after 1 min; >150%: after 200 ms; auto recovery when load returns to normal									
Over-temperature	Internal temperature > 85°C: transfer to bypass automatically									
Output short circuit	Current limiting; auto shutdown; miniature circuit breaker protection									
UPS abnormal	Transfer to bypass automatically; load powered by utility									
Noise filter	10–100 kHz @ 40 dB; 100 kHz–100 MHz @ 70 dB									
Control panel										
LED+LCD										
LCD display	UPS status; input/output voltage; input/output frequency; battery voltage; output load (%); inverter temperature									
Low-battery indicator	On when battery voltage is low									
Overload indicator	On when overloaded									
Fault indicator	On when fault occurs									
UPS status	Utility mode; Battery mode; Inverter; Bypass; UPS abnormal									
Safety standards										
Safety	GB4943									
EMI	IEC62040-2, GB7260.2									
EMS	IEC61000-4-2-5, GB/T 17626.2-5									
Environment										
Operating temperature	–10–50°C									
Relative humidity	20–90% RH (non-condensing)									
Altitude	< 2000 m (derate output by 2% for every +500 m)									
Noise (1 m in front)	<55dB									
Physical										
Wiring method (I/O)	Terminal block									
Net weight(no battery),kg	46	63	75	68	75	110	115	150	200	245
Dimensions(WxDxH)mm	200×530×460	200×620×540		230×580×550		230×580×700	310×590×870		435×680×900	435×680×1000
Others										
Overall efficiency	> 85% (optional 90–95%)									
Transfer time (utility failure)	0ms									
Communication port	RS232 (external SNMP card supported); optional RS485 and DB9 dry contacts									
Note	Custom options available: input isolation transformer, surge protector, 220 VAC input / 110 VAC output or 110 VAC input / 220 VAC output, non-standard special versions, and medical UPS									



Product Overview

The UPS 31-G Series (3-phase in / 1-phase out) is an online double-conversion UPS for data centers, network rooms, and precision equipment, delivering reliable power for critical loads. It uses IGBT + SPWM inverter with smart battery management. Optional: isolation transformer, custom voltage/frequency, external charger, SNMP adapter.

Applications

Network centers, server clusters, telecom, banking systems, hospitals, government, securities, finance, industrial process control, routers, switches,etc.

Key Features

- Grid-oriented design to improve system availability
- High-reliability design to ensure stable network operation
- Intelligent battery management to extend battery life
- Comprehensive protection functions for higher stability and reliability
- Advanced digital parallel control technology
- User-friendly HMI: LCD + LED and network management for easy monitoring

6-120kVA

Model	3106G	3110G	3115G	3120G	3125G	3130G	3140G	3160G	3180G	31100G	31120G
Capacity	6KVA	10KVA	15KVA	20KVA	25KVA	30KVA	40KVA	60KVA	80KVA	100KVA	120KVA
AC input											
Input voltage	3-phase 380VAC ±25%						3-phase 380VAC ±15%,±25%(optional)				
Input frequency	50(60)Hz ±5%										
Bypass input											
Voltage range	Single-phase 160—275 VAC (optional AVR: 110—300 VAC)										
Frequency range	50(60)Hz ± 5%										
AC output											
Output voltage	Single-phase 220VAC										
Output frequency	50(60)Hz										
Voltage regulation	±1%										
Frequency stability	± 0.5%(when utility fails)										
Waveform	SPWMsine wave										
Power factor	0.8 (lagging) (optional 0.9)										
THD	<3%(linear load)										
Transient response	Voltage change ≤ 3% (100% load step on/off)										
Crest factor	3:1 (max)										
Max. current	10A	16A	24A	32A	46	56A	76A	95A	126A	160A	190A
Battery											
Battery voltage	192VDC				192/240VDC(optional)			384VDC			
Battery type	Maintenance-free lead-acid battery										
Recharge time	8—10 hours to reach 90% capacity										
Alarms											
Utility failure	Buzzer beeps once every 4 seconds										
Utility abnormal	Buzzer beeps once every 4 seconds; utility mode indicator flashes										
Battery low	Buzzer beeps once every 1 second; battery mode indicator flashes; low-battery LED on										
Overload	Overload LED on; continuous buzzer										
UPS fault	Fault LED on; continuous buzzer										
Internal protection											
Battery	Low-battery auto shutdown; auto restart when utility returns; miniature circuit breaker protection										
Overload	110%: normal; 125%: transfer to bypass after 10 min; 150%: after 1 min; >150%: after 200 ms; auto recovery when load returns to normal										
Over-temperature	Internal temperature > 85°C: transfer to bypass automatically										
Output short circuit	Current limiting; auto shutdown; miniature circuit breaker protection										
UPS abnormal	Transfer to bypass automatically; load powered by utility										
Noise filter	10—100 kHz @ 40 dB; 100 kHz—100 MHz @ 70 dB										
Control panel LCD+LED											
LCD display	UPS status; input/output voltage; input/output frequency; battery voltage; output load (%); inverter temperature										
Low-battery indicator	On when battery voltage is low										
Overload indicator	On when overloaded										
Fault indicator	On when fault occurs										
UPS status	Utility mode; Battery mode; Inverter; Bypass; UPS abnormal										
Safety Standards											
Safety	GB4943										
EMI	IEC620402, GB7260.2										
EMS	IEC61000-4-2-5, GB/T17626.2-5										
Environment											
Operating temperature	-10-50℃										
Relative humidity	20-90% RH (non-condensing)										
Altitude	< 2000 m (derate output by 2% for every +500 m)										
Noise (1 m in front)	<58dB										
Physical											
Wiring method (I/O)	Terminal block										
Net weight (no battery), kg	85	130	140	220	260	300	330	479	504	640	700
Dimensions (WxDxH) mm	230×580×700	310×590×870	435×680×900	435×680×1000				800×800×1480		800×800×1800	
Others											
Overall efficiency	>87%										
Transfer time (utility failure)	0ms										
Transfer time (inverter / bypass)	≤1ms										
Communication port	RS232 (external SNMP card supported); optional RS485 and DB9 dry contacts										
Custom options available: input isolation transformer, surge protector, 220 VAC input / 110 VAC output or 110 VAC input / 220 VAC output, non-standard special versions, and medical UPS.											



Product Overview

Line-frequency UPS 33-G Series is a 3-phase online double-conversion UPS with DSP control. It supports multi-voltage/frequency grids, PF up to 0.9, and parallel up to 8 units. Zero transfer time, strong protection, smart battery management, N+1 redundancy, and efficient cooling ensure reliable critical power. Multilingual LCD simplifies O&M.

Applications

Government, finance, telecom, education, transportation, meteorology, broadcast & TV, industry & commerce, tax services, healthcare, etc.

Key Features

- **Zero transfer time**
Online double-conversion; zero transfer time; fixed-frequency output
- **Digital control**
Full digital control; stable sine-wave output
- **High input power factor**
Active PFC; input PF ≥0.8
- **Robust design**
Robust double-sided PCB; corrosion-resistant
- **High environmental adaptability**
Conformal coating (3-proof) for harsh environments
- **Flexible I/O mode**
3-phase in / 3-phase out
- **LCD display**
LCD shows real-time status and parameters

10-200KVA

Model	3310GS	3315GS	3320GS	3330GS	3340GS	3360GS	3380GS	33100GS	33120GS	33160GS	33200GS	
Capacity	10KVA/8KW	15KVA/12KW	20KVA/16KW	30KVA/24KW	40KVA/32KW	60KVA/48KW	80KVA/64KW	100KVA/80KW	120KVA/96KW	160KVA/128KW	200KVA/160KW	
Main input												
Input voltage range	380/400/415Vac ; 165 –280 (Ph –N) / 285 –485 (Ph –Ph)											
Input wiring	3Ph+N+PE											
Frequency range	50Hz ±5 (10%) /60Hz ±5 (10%)											
Input power factor	≥0.7 (without filter); ≥0.97 (with filter)											
Rectifier technology	SCR (thyristor)											
THDi	<50% (without filter); <15% (with filter)											
Bypass input												
Bypass voltage range	176 –264Vac(Ph –N) / 304 –456Vac (Ph –Ph)											
Bypass wiring	3Ph+N+PE											
Frequency tracking range	50±5 (10%) /60 Hz ±5 (10%)											
Bypass overload capability	150% –180% 1H –300s ; >180% 300S											
Output												
Output voltage	3×380VAC/400VAC/415VAC 3Ph+N											
Voltage regulation	±1%											
Output power factor	0.8											
Frequency sync range	Utility mode / Battery mode: 50/60 Hz ± 0.01 Hz											
Waveform	Sine wave											
THDv	≤2%(linear load);≤4%(non –linear load);											
Phase unbalance	120° ±1% (balanced load); 120° ±2% (50% unbalanced load)											
Recovery time	Recover to 90% of rated value within 3 cycles											
Transfer time (Utility → Battery)	0ms											
Overload capability	≤110% 60min ; ≤125% 10min ;≤150% 1min >150% 200ms											
Crest factor	3:1 (max)											
Load power factor range	0.6 –1 (capacitive or inductive)											
Unbalanced output voltage @ 100% unbalanced load	< 1%											
Current limiting	Severe overload, short circuit; RMS voltage limiting; inrush current; peak voltage limiting.											
Transfer time (Inverter → Bypass)	Synchronized mode: seamless transfer; Non-synchronized mode: 10 ms.											
Transfer to bypass	Immediate; overload 160%.											
Return to inverter	Auto transfer after alarm is cleared											
Efficiency	Online mode	89%	90%	91%	92%	92%	92%	92%	92%	92%	92%	
	Battery mode	90%	91%	92%	92%	92%	92%	92%	92%	92%	93%	
Rectifier												
Rectifier type	6pulse											
Rated DC voltage	384VDC											
Charging voltage	395VDC – 435VDC(Adjustable)											
Battery & Charging												
Battery quantity (12 V)	29/30/31/32 Pcs (Adjustable)											
Charging current	Max. = Capacity (kW) / Battery voltage (real-time) x max. current; max. current never exceeds 40 A		Max. 40 A; 5 A @ full load									
Battery type	Sealed lead –acid; Ni –Cd											
Communication & Management												
Communication ports	Dry contact, USB, RS232, RS485; 1 slot for communication card; optional SNMP											
Control panel	3.5" LCD; optional 5" color touch screen											
Alarms	output overload, utility abnormal, UPS fault, low battery; history log supported											
Protections	output short circuit, overload, over –temp, low battery, output over/under –voltage, fan fault, lightning protection											
Other functions												
ECO mode	Supported											
EPO function	Supported											
Walk –in function	Supported											
Parallel quantity	Up to 4 units											
Environment												
Operating temperature	0 –55℃											
Storage temperature	–25 ~ 55℃(no battery)											
Relative humidity	< 95% RH(non –condensing)											
Altitude	0 –1500 m at 100% load; above 1000 m, derate output power by 1% per 100 m.											
Noise (1 m in front)	70dB@100%load											
Protection												
IP rating	IP20											
Conformal coating (3 –proof)	Standard											
Dust filter	Standard											
Physical												
Dimensions (L×W×H) mm	560x 360 x 900			683 x 450x1100		821x432x1159		975 x 554 x 1286			1051x705x1646	
Weight (kg)	108	146	146	220	256	297	400	472	573	720	790	



Product Overview

The UPS 33-G Series is a 3-phase online double-conversion UPS with patented integrated design, full digital control (DSP/MCU/CPLD), and masterless parallel up to 8 units—efficient, reliable, and eco-friendly for high-demand sites.

Applications

Large data centers, bank/securities centers, telecom NOCs, semiconductor lines, automation/control systems; custom versions for venues and tunnel/highway/rail lighting.

Key Features

- Full digital control; high stability
- Rectifier + IGBT inverter; 380/400/415 V, 50/60 Hz
- PF up to 0.9; >10% higher load capability
- Wide input voltage/frequency range
- Digital current sharing; parallel up to 8 units
- Strong overload / short-circuit capability
- Smart battery management with undervoltage protection
- Zero-transfer static switch; PLL sync for seamless bypass
- Surge + over/under-voltage output protection
- N+1 redundancy; sealed air duct + redundant fans
- Multilingual LCD with logs and battery info
- Supports 12 languages (incl. Chinese/English)

300–800K

Model	33300GS		33400GS		33500GS	33600GS	33800GS
	6 pulse	12 pulse	6 pulse	12 pulse	12 pulse	12 pulse	12 pulse
Capacity	300KVA/270KW		400KVA/360KW		500KVA/450KW	600KVA/540KW	800KVA/720KW
Rated voltage	380/400/415VAC 3Ph+N+PE						
Rated frequency	50/60Hz						
AC input							
Voltage range	±15%;±25%(optional)						
Frequency range	45–65Hz						
Input power soft start	0~100%, 5~300 s adjustable						
Power factor	>0 .98 (with filter)						
THDi	<4 .5% (with filter)						
Bypass input							
Voltage range	±15%;±25%(optional)						
Frequency range	50/60Hz±10%						
Output							
Inverter voltage	380/400/415VAC 3Ph+N+PE						
Voltage regulation	±1% (steady–state); ±3% (transient)						
Frequency	50/60Hz						
Frequency (battery mode)	50/60Hz±0 .05Hz						
Power factor	PF 0.9 (90 kW per 100 kVA)						
Steady–state response time	<5ms						
Overload capability	At PF 0.9: 110% 1 h; 125% 10 min; 150% 1 min						
Short–circuit current limiting	3–phase: 150% for 5 s ; Single–phase: 290% for 5 s						
Max. static bypass current	Bypass current capacity: 1000% for 100 ms						
Phase shift	Balanced load <1° ,100% unbalanced load <1°						
THDV	100% linear load <1% ; 100% non–linear load <3%						
System efficiency (full load)	Up to 94%; ECO mode up to 98%						
DC							
Voltage regulation	1%						
Battery voltage	384VDC				480VDC		
Environment							
Operating temperature	0~40℃						
Relative humidity	0~95% RH (non–condensing)						
Storage temperature	–25~70℃ (no battery)						
Altitude	≤ 1000 m at rated load; above 1000 m, derate load by 1% per 100 m						
Noise (1 m in front)	55~65dB						
IP rating	IP20						
Standards	Safety: IEC60950–01 , IEC62040–1–1 , UL1778 , EMC : IEC62040–2 CLASS A , EN50091–2 CLASS A, Design & test: IEC62040–2 CLASS A						
Physical							
Weight (kg)	1600		2100		3890	4160	5390
Dimensions (LxWxH) mm	1400X1100X2000		1640X850X1900		2938X1100X1900		3955X1100X1900



Product Overview

The Power Utility UPS T Series (with TB bypass stabilizer and TX feeder cabinets) is for power plants/substations, using online double-conversion with zero transfer time. It supports telecontrol/RTU/monitoring. Utility powers the inverter; on utility failure the DC panel supplies it, and low DC triggers bypass. Power recovery returns to inverter; faults transfer to bypass with alarm.

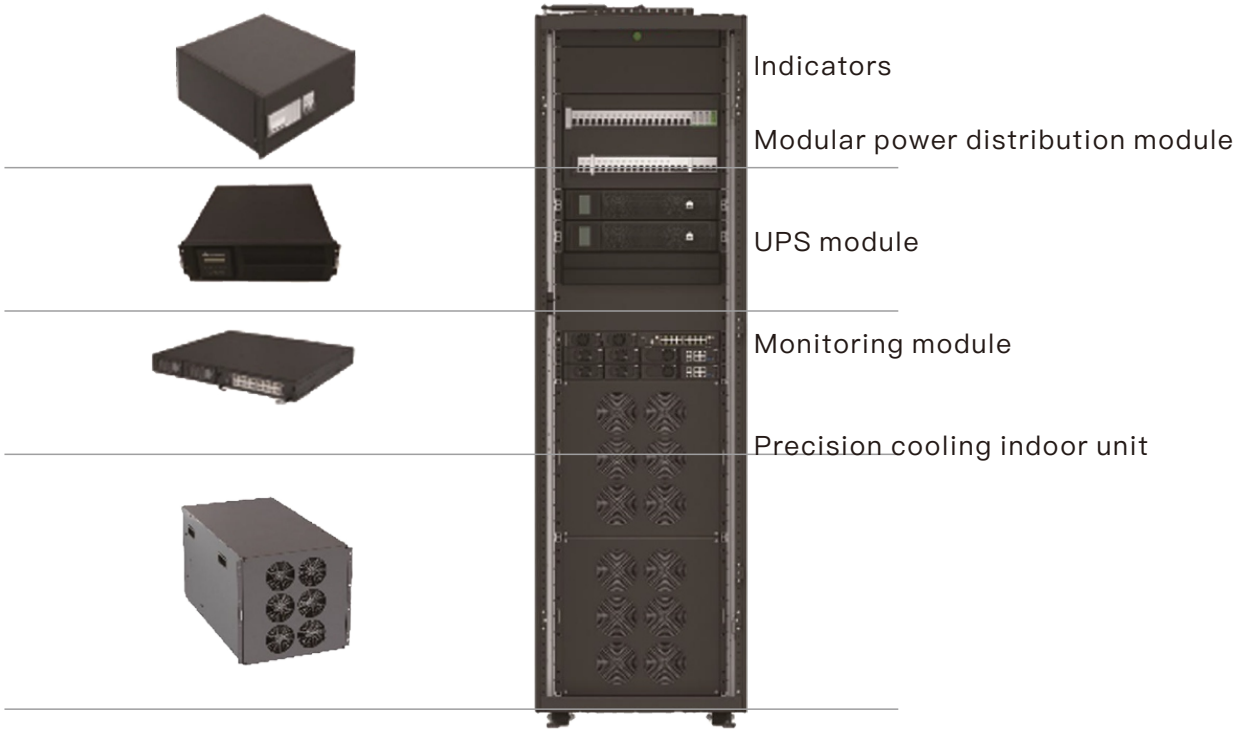
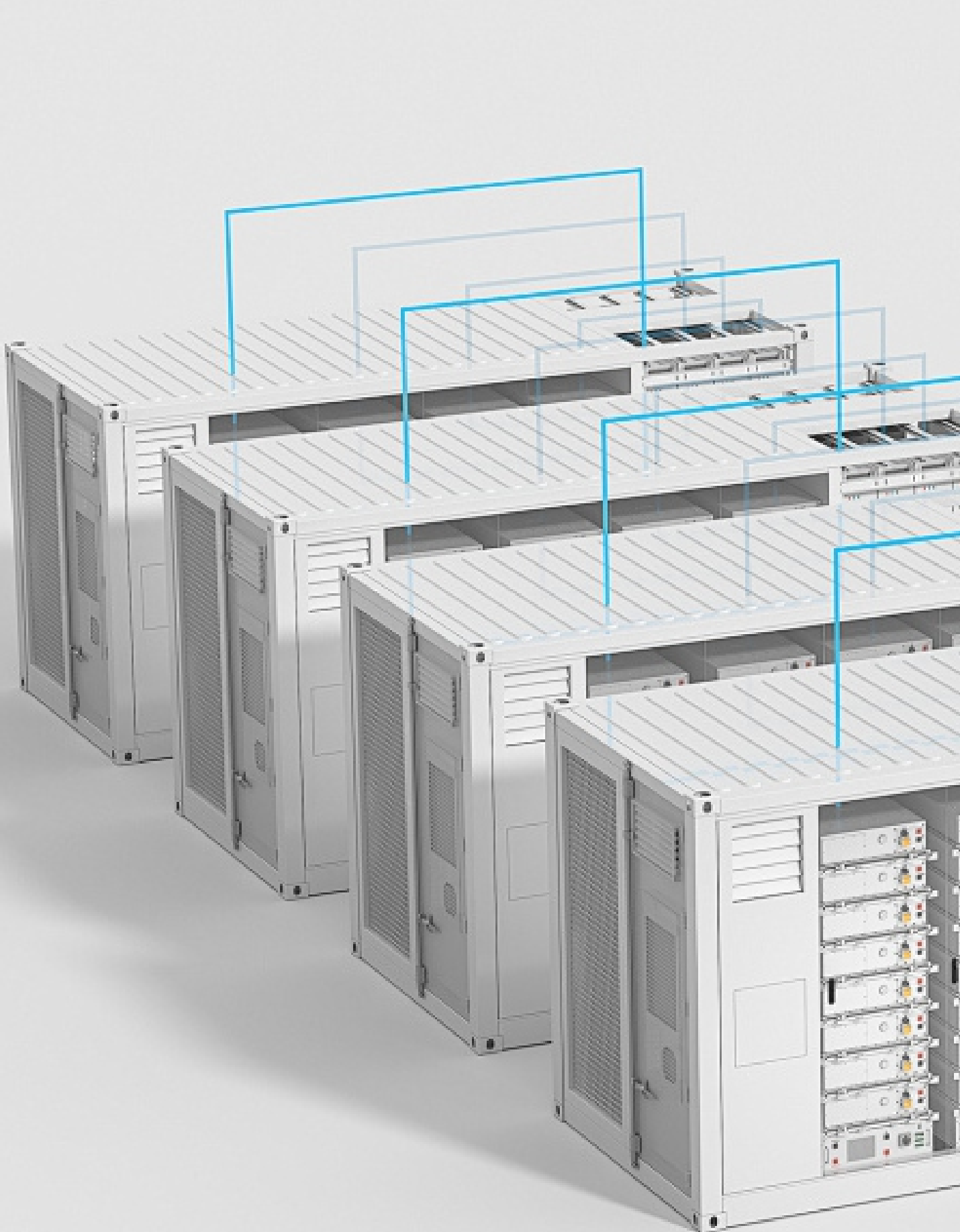
Applications

Widely used in power plants, substations, and distribution stations.

Key Features

- **Rectifier**
3-phase input via isolation transformer; DC output within ±5% under ±25% input variation and 0–100% load change.
- **Inverter**
SPWM + IGBT converts DC to sine-wave AC, with low distortion, smaller filters, and strong dynamic response.
- **Station DC system (DC panel)**
Seamless supply during utility fault; discharge signal; low-voltage warning.
- **Utility / Backup AC**
Dual-AC input; transfers to backup AC on utility abnormal; switches to DC panel only if both AC inputs fail.
- **Static switch**
Seamless transfer between bypass and inverter. Transfer can be automatic or manual.
- **Intelligent monitoring**
Real-time UPS status and data are sent to the DCS via RS232/RS485.

Model	1101–30TS	3106–120TS		3310–120TS
Capacity	1–30KVA	6–120KVA		6–120KVA
AC input				
Phase	Single-phase		3-phase	
Rated voltage	AC220V ±25%		AC380V ±25%	
Rated frequency	50HZ ±5%,60HZ ±5%			
Bypass input				
Phase	Single-phase		3-phase	
Rated voltage	AC220V ±25%		AC380V ±25%	
Rated frequency	50HZ ±5%,60HZ ±5%			
Frequency tracking rate	≤1Hz/S			
Output				
Rated voltage	Single-phase AC220V ±1%		Single-phase AC220V ±1% 3-phaseAC380V ±1%	
Rated frequency	50 Hz / 60 Hz ± 0.05 (battery mode)			
Power factor	≥ 0.8			
Waveform	Sine wave			
THD	linear load <2% ; non-linear load <3%			
Overload capability	125% for 10 min; 150% for 1 min; auto recovery when load returns to normal			
Crest factor	3:1 (max)			
Transfer time (Utility failure)	0ms			
Transfer time (Inverter/Bypass)	≤1ms			
DC input				
DC voltage (battery)	DC110/220V			
Voltage range	DC93–137V/184–275V			
Alarms				
Utility failure	Buzzer beeps once every 4 seconds			
Utility abnormal	Buzzer beeps once every 4 seconds ; Utility-mode indicator flashes			
Battery low	Buzzer beeps once every 1 second ; Battery-mode indicator flashes ; Low-battery LED on			
Overload	Overload LED on ; Continuous buzzer			
UPS fault	Fault LED on ; Continuous buzzer			
Internal protections				
DC voltage (battery)	Low-battery auto shutdown ; Auto restart when utility returns ; Miniature circuit breaker protection			
Overload	Overload (120–150%): auto transfer to bypass after 60 s; auto recovery when load returns to normal.			
Over-temperature	Internal temperature >85℃: auto transfer to bypass			
Output short circuit	Current limiting ; Auto shutdown ; Miniature circuit breaker protection			
UPS fault	Auto transfer to bypass; load powered by utility.			
Noise filter	10-100KHz at 40dB; 100KHz-100MHz at 70dB			
Control panel				
LCD+LED				
LCD display	Displays UPS status; input/output voltage, input/output frequency, battery voltage, output load (%), inverter temperature.			
Low-battery indicator	On when battery voltage is low			
Overload indicator	On when overloaded			
Fault indicator	On when fault occurs			
UPS status	Utility mode; Battery mode; Inverter; Bypass; UPS abnormal			
Efficiency (full load)	91%	92%	95%	
Communication port	RS232/RS485(optional remote network monitoring)			
Operating temperature	-10℃ ~ 50℃			
Relative humidity	30% ~ 90% RH (non-condensing)			
Altitude	< 2000 m (derate 1% per +100 m; max. 4000 m)			
Noise (1 m in front)	48 ~ 55dB	53 ~ 65dB	55 ~ 65dB	
Cabinet color	Grey-white (RAL 7032/7035); Black (optional)			
Dimensions (LxWxH) mm	800 x 600 x 2260/800 x 800 x 2260		1000 x 800 x 2260/1200 x 800 x 2260	
Weight (kg)	Depends on configuration			
Options	dry contact / RS485 / SNMP adapter / harmonic compensation cabinet / I/O distribution cabinet / I/O isolation cabinet			
	surge protection / bypass voltage stabilizer cabinet / custom cabinet size / 1–30 kVA TRS rack version			



Product Overview

A Micro-modular Data Center is an integrated “data center in a module,” combining racks, enclosed aisle, power distribution, cooling, management, and cabling. Modules use unified interfaces and can be expanded or combined to build a complete data center.

Applications

Healthcare, government, education, transportation, telecom, energy, finance, power, etc. Ideal for edge sites with limited space and budget.

Key Features

- Energy-saving & eco-friendly: the precision air conditioner controls a sealed enclosure, so energy consumption for temperature regulation is much lower than cooling an entire room.
- Sound absorption & noise reduction: designed for office scenarios; reduces IT equipment noise to 50 dB, with up to 85% noise reduction.
- No engineering work: a highly integrated, modular cabinet-type micro data center. After delivery, simply connect mains power and install the air conditioner to run—plug-and-play. A preferred solution with low investment and high return.
- No server room required: the internal operating environment meets professional data room standards; it can be used in a normal office area with relaxed site requirements.
- Unattended operation: supports 365 days × 24 hours operation with remote network monitoring, mobile app monitoring, and intelligent management—minimizing IT deployment and O&M cost.
- System consistency: the complete system is assembled and tested in the factory, ensuring consistent standards, acceptance, and deployment quality.



Product Overview

The Micro-modular Data Center is a highly integrated solution for modern data centers. One module can include racks, an enclosed aisle, power distribution, cooling, management, and cabling—providing a complete IT operating environment.Each module has independent functions with unified interfaces, and modules can back up each other. Multiple modules can be combined to build a full data center.The Modular Data Center integrates modular UPS, row power distribution cabinets (PDF), and in-row precision cooling to deliver a standardized, optimized, intelligent infrastructure for high availability.

Applications

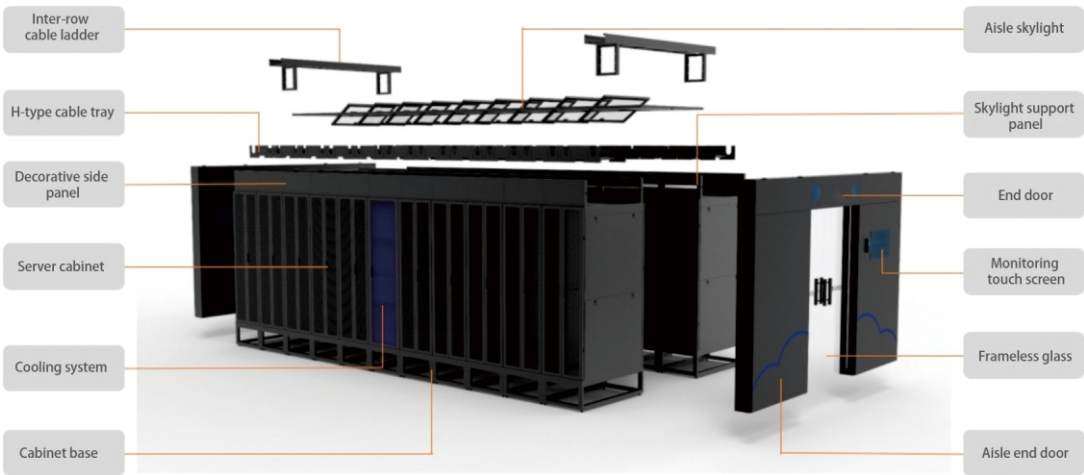
Healthcare, government, education, transportation, telecom, energy, finance,power, etc. Ideal for edge sites with limited space and budget.

Key Features

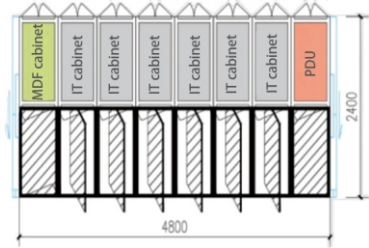
- Construction: configured on demand to reduce data room investment and overall cost.
- Cooling efficiency: in-row air conditioning fully separates hot and cold air, reducing HVAC power consumption.
- Hotspot prevention: avoids local hotspots, reduces cooling loss, and lowers PUE.
- Delivery: factory prefabrication; fast on-site assembly; plug-and-play; rapid deployment.
- Appearance: unified style and dimensions for racks, air conditioners, UPS, and power distribution—clean and consistent.

No.	Component	Specification
1	Cabinet coupling kit	M8x25 screws, nuts, and flat washers (1 set = 6 pcs)
2	L-shaped guide rails	For mounting equipment without slide rails; supplied as left/right pair
3	1U blanking panel	Separates hot/cold airflow inside the cabinet to prevent airflow disorder; tool-free 1U installation
4	Fixed shelf	For IT equipment; suitable for N-series server racks and supply-air racks with 1200 mm depth; load capacity 100 kg
5	Horizontal cable manager	Installs directly on the U-post mounting holes; manages horizontal cabling; used with switches
6	Vertical cable tie panel	For all cabinets; cable tying and PDU mounting
7	Top cable tray	H-shaped trunking; can be separated for power, weak current, and optical fiber
8	In-row cable ladder	Spans across the aisle; used for inter-row cabling
9	Cabinet base	Standard height: 300 mm
10	Single flip-top roof module	Flip-up full-glass skylight; 95% light transmittance; built-in lighting module; no extra lamp required; for 600 mm-wide cabinets
11	Side panel & upper trim side panel	Covers the glass door; supports large display mounting; improves appearance
12	UPS modular main unit	90–300 kVA main unit; standard 30 kVA module
13	PDU	10+4 / 16+4 / 20+4

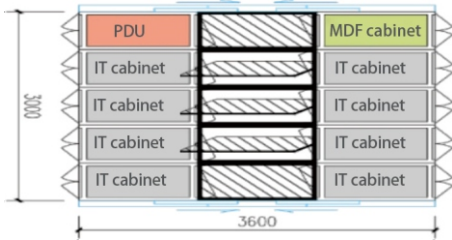
Micro-modular Data Center Structure



Single-row layout



Dual-row layout





51.2V200Ah-5U



51.2V50Ah-3U



48V100Ah-4U



51.2V20Ah-2U

Product Overview

The LiFePO4 battery system offers high safety and long cycle life (up to 800°C thermal stability, >4,000 cycles). It suits NEVs, energy storage, and industrial use, with low cost, wide temperature adaptability, and eco-

Applications

Backup power for access network equipment, remote exchanges, mobile communications, transmission systems, satellite ground stations, and microwave communications.

Key Features

- High energy density and high charge/discharge efficiency; BMS protection;
- Modular design; simple structure; easy installation and maintenance.

Product Specifications

Model	Nominal voltage	Rated capacity	Dimensions	Charge current	Discharge current	Weight
KD5120AA	51.2V/16S	20Ah	482.6(360)×90×280mm	15A	20A	11kg
KD5150AA		50Ah	482.6(360)×133×330mm	25A	25A	21kg
KD5180AA		80Ah	482.6(442)×133×380mm	40A	80A	36kg
KD51100AA		100Ah	482.6(442)×177×400mm	50A	100A	45kg
KD51150AA		150Ah	482.6(442)×222×480mm	50A	100A	56kg
KD51200AA		200Ah	482.6(442)×222×580mm	50A	100A	63kg
KD4820AA	48V/15S	20Ah	482.6(360)×90×280mm	15A	20A	11kg
KD4850AA		50Ah	482.6(360)×133×330mm	25A	25A	21kg
KD4880AA		80Ah	482.6(442)×133×380mm	40A	80A	36kg
KD48100AA		100Ah	482.6(442)×177×400mm	50A	100A	45kg
KD48150AA		150Ah	482.6(442)×222×480mm	50A	100A	56kg
KD48200AA		200Ah	482.6(442)×222×580mm	50A	100A	63kg
Optional features: display, Bluetooth, GPS. Communication interfaces: RS485, RS232, CAN, dry contact. Dimensions, capacity, and other special requirements can be customized.						



192V200Ah



576V200Ah



256V200Ah



144V100Ah



192V100Ah



384V100Ah

Applications

Backup power for commercial office buildings, restaurants, server rooms / data rooms, UPS backup systems, and industrial parks,etc.

Key Features

- High energy density and high charge/discharge conversion efficiency.
- High modularity, simple structure, and easy installation and maintenance.

Product Specifications

Model	Nominal voltage	Rated capacity	Dimensions	Charge current	Discharge current	Weight
KD144100A	144V	100Ah	860×633×600mm	100A	200A	240kg
KD192120A	192V	120Ah	600×650×140mm	120A	240A	560kg
KD192120A	192V	200Ah	1850×1500×750mm	100A	200A	300kg
KD38440A	384V	40Ah	550×550×1200mm	40A	80A	340kg
KD38460A		60Ah	550×550×1200mm	50A	100A	370kg
KD38495A		95Ah	1110×633×600mm	50A	100A	410kg
KD576100A	576V	200Ah	1800×750×500mm	50A	100A	930kg
Optional features: display, Bluetooth, GPS. Communication interfaces: RS485, RS232, CAN, dry contact. Dimensions, capacity, and other special requirements can be customized.						



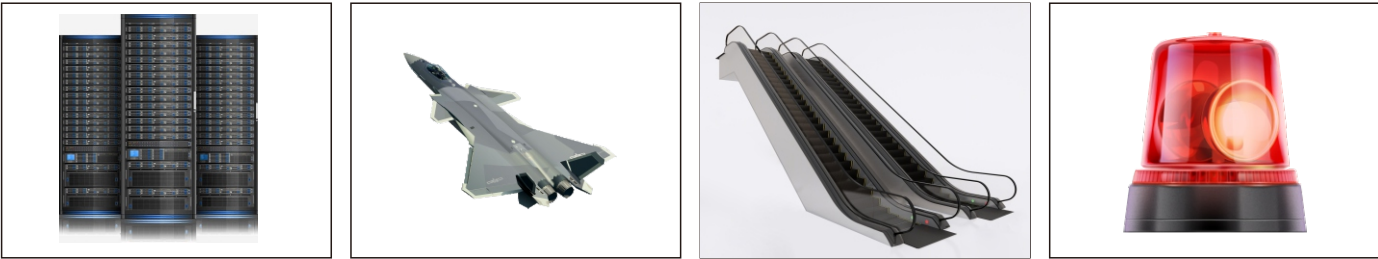
Model		Nominal Voltage(V)	Capacity(Ah)	Dimension (mm)				Terminal	
				Length	Width	Height	Total Height	Model	Position
KD	180-6	6	180	307	169	222	225	M8	B
KD	200-6	6	200	307	169	222	225	M8	F
KD	225-6	6	225	260	180	248	251	M6	F
KD	32-12	12	32	198	131	155	177	M6	C
KD	35-12	12	35	198	131	155	164	M8	C
KD	36-12	12	36	198	131	155	170	M6	C
KD	38-12	12	38	196	165	175	182	M6	D
KD	40-12	12	40	196	165	175	182	M6	D
KD	45-12	12	45	197	166	169	169	M6	D
KD	50-12	12	50	196	165	175	182	M6	D
KD	55-12	12	55	229	136	210	232	M8.5	C
KD	60-12	12	60	261	167	184	188	M6	D
KD	65-12	12	65	351	166	173	184	M6	D
KD	70-12	12	70	259	168	210	232	M8	C
KD	75-12	12	75	259	168	210	232	M8	C
KD	80-12	12	80	351	166	176	176	M6	D
KD	90-12	12	90	306	169	208	232	M8	C
KD	100-12	12	100	332	175	215	223	M8/M6	C
KD	110-12	12	110	332	175	215	243	M8.5	C
KD	120-12	12	120	408	174	233	240	M6/M8/M10	C
KD	134-12	12	134	341	173	283	285	M6	C
KD	150-12	12	150	483	170	242	242	M6/M8	C
KD	180-12	12	180	530	209	214	240	M8	B
KD	200-12	12	200	530	209	214	240	M8	B
KD	250-12	12	250	520	268	220	245	M8	B
KD	260-12	12	260	520	268	220	245	M8	B

Product Overview

Voltagelevels: 6V,12V
Design life: 10 years
Sealing reaction efficiency: ≥98%
Capacity range(C10):33Ah-260Ah
Low self-discharge rate: ≤3%month(25°C)
Operating temperature range: -20°C~50°C

Applications

Computer systems: UPS (Uninterruptible Power Supply), etc.
Stations & docks: signal lights, instruments, etc.
User systems: monitoring, intercom, emergency lighting, elevators, etc.
Telecom & power: postal/telecom systems, power plants, etc.
Underground mines: miners’ lamps, transport vehicles, UPS power, etc.
Tourism & entertainment: electric toys, signal lights, instruments, etc.
Aerospace & marine: vessels, fishing boats, fishing lamps, beacon lights, etc.
Banks / schools / malls / hospitals: UPS power, precision instruments, etc.
Defense & military: aircraft, tanks, armored vehicles, artillery, etc.





High/Low Temperature Test /Report



TLC Certificate / Report



Energy-saving Certificate / Report



CE Certificate / Report



Software Copyright



National Credit Rating Certificate



ISO System Certificates



Invention Patents



HONORS STRENGTH



Haode IoT Technology (Shenzhen) Co., Ltd.

Our Key Partners
Nationwide partners demonstrate our strength



Offshore
Engineering

Customer	Product	Power range
Lufeng Platform	High-frequency UPS Series	10~30kVA
Huizhou Platform	ModulaModular UPS Series	50kVA
Lingshui Platform	High-frequency UPS Series	10~15kVA
Qinhuangdao Platform	High-frequency UPS Series	20kVA
Xiamen University Research Vessel	High-frequency UPS Series	10~15kVA
Yangtze River Survey Vessel	High-frequency UPS Series	10~20kVA
SB Submarine Systems Ship	Modular UPS Series	200kVA
XYH-51	High-frequency UPS Series	20kVA



Government &
Public Institutions

Customer	Product	Backup time
Hebei Gu'an Middle School	UPS-33100-400	5-15min
Henan University of Technology	UPS-3360-80	15-30min
Bengbu Administration Office	UPS-3130	60min
Xidian University	UPS-3380	60min
Bengbu Armor Academy	UPS-33120	60min
Anhui Meteorological Bureau	UPS-3380	60min
Chizhou Public Security Bureau	UPS-3340-200	60min
Anhui Earthquake Agency	UPS-3130	30min
Ji'an Television Station	UPS-33120	60min
Guizhou Broadcasting Station	UPS-3110-30	30~120min



Semiconductor

Customer	Product	Backup time
SMIC	UPS-33500	60min
Silink Integration	UPS-33500	60min
Yuxin Semiconductor	UPS-33200	60min
Jlta Semiconductor	UPS-3340	120min
Rirong Semiconductor	UPS-33100	60min
Qiwei Semiconductor	UPS-33120	60min
Zhiwei Semiconductor	UPS-3330	60min
San'an Opto (TJ)	UPS-33500	30min
Hongmao Microelectronics	UPS-33500	60min



Power Utility

Customer	Product	Power range
CHNG	Power Utility UPS - T Series	10-120KVA
CHD	Power Utility UPS - T Series	6-100KVA
CDT	Power Utility UPS - T Series	6-120KVA
CEP	Power Utility UPS - T Series	6-120KVA
CGDC	Power Utility UPS - T Series	6-120KVA
NR Electric	Power Utility UPS - T Series	6-120KVA
SAC	Power Utility UPS - T Series	6-120KVA
XJ Electric	Power Utility UPS - T Series	1-120KVA



Finance & Telecom

Customer	Product	Backup time
Huaxia Bank (Ji'an)	UPS-3360	30min
Guizhou RCC	UPS-3380	60min
Qiannan RCC	UPS-3120	60min
SPDB (Xiamen)	UPS-1110	30min
PSBC	UPS-1106	60min
Cloud Horizon	USP-1110	30min
Cloud Horizon	UPS-3340	60min
Harbin Nongken Comm	UPS-3310-200	30-60min



Rail Transit

Customer	Product	Power range
Beijing Metro	Line-frequency UPS Series	1-200KVA
Tianjin Metro	Line-frequency UPS Series	1-40KVA
Guiyang Metro	Line-frequency UPS Series	10-200KVA
Fuzhou Metro	Line-frequency UPS Series	6-200KVA
Kunming Metro	Line-frequency UPS Series	1-200KVA
Shenyang Metro	Line-frequency UPS Series	1-300KVA
Xiamen Metro	Line-frequency UPS Series	6-40KVA
Ningbo Metro	Line-frequency UPS Series	10-200KVA



Oil &
Petrochemical

Customer	Product	Power range
PetroChina	Line-frequency UPS Series	300-800KVA
Sinopec	Line-frequency UPS Series	1-800KVA
CNOOC	Line-frequency UPS Series	1-100KVA
PipeChina	Line-frequency UPS Series	1-200KVA
Huayi Group	Line-frequency UPS Series	10-200KVA
Qimei Chemical	Line-frequency UPS Series	200-500KVA
Kang Na ER	Line-frequency UPS Series	100-500KVA
Sanlian Chemical	Line-frequency UPS Series	10-200KVA



Automotive
Manufacturing

Customer	Product	Power range
SAIC Volkswagen	Line-frequency UPS Series	100~300kVA
FAW-Volkswagen	Line-frequency UPS Series	10~100kVA
FAW Tianjin	Line-frequency UPS Series	50~100kVA
GAC Stellantis	Line-frequency UPS Series	100~300kVA
GWM	Line-frequency UPS Series	100kVA
Geely	Line-frequency UPS Series	10~80kVA
Dongfeng Motor	Line-frequency UPS Series	100~300kVA



Steel

Customer	Product	Power range
Baowu Group	Line-frequency UPS Series	100~300kVA
Shougang Co.	Line-frequency UPS Series	10~100kVA
FJLG	Line-frequency UPS Series	10-200kVA
Sansteel	Line-frequency UPS Series	1-40kVA
Tsingshan	Line-frequency UPS Series	10-50kVA
Kunsteel	Line-frequency UPS Series	10-50kVA
Henglian Steel	Line-frequency UPS Series	10-100kVA
Changqiang Steel	Line-frequency UPS Series	10-40kVA



Data Center

Customer	Product	Power range / Backup time / Type
SHHDC	Line-frequency UPS Series	100~300kVA
	Modular UPS Series	200~600kVA
	UPS-compatible Li-ion Battery System	15~30min
	Micro-modular Data Center	Dual-row
XJJLDC	High-frequency UPS Series	400K
	UPS-compatible Li-ion Battery System	30min
SDD Data Room	UPS-compatible Li-ion Battery System	30~60min
GYRH Railway Data Room	Modular UPS Series	10~60kVA
CTS Data Room	UPS-compatible Li-ion Battery System	15~30min
FJLGDC	Micro-modular Data Center	Dual-row
WXCRG Data Room	Micro-modular Data Center	Single-row
HNXZVC Data Center	Micro-modular Data Center	Single-row



Healthcare

Customer	Product	Power range / Backup time
Xiamen University Affiliated Cardiovascular Hospital	Modular UPS Series	10-200kVA
	Line-frequency UPS Series	10-100kVA
	UPS-compatible Li-ion Battery System	30~60min
Xuwei Hospital	UPS-compatible Li-ion Battery System	30-60min
Honghe Hospital	UPS-compatible Li-ion Battery System	30-60min
Hospital of SWMU	UPS-compatible Li-ion Battery System	30-60min
Yangzi Hospital	Line-frequency UPS Series	1-40kVA
Ganzhou Hospital	Line-frequency UPS Series	1-40kVA
Baoji Hi-tech Hospital	Line-frequency UPS Series	1-40kVA
Juye County Hospital	Line-frequency UPS Series	10-200kVA
HD Medicine	Line-frequency UPS Series	1-40kVA