



**HEBEI KELINGYIZHI
COMMUNICATION
TECHNOLOGY CO.,LTD**

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**ABOUT
COMPANY**



Hebei Keling Yizhi Communication Technology Co., Ltd. is a professional global telecommunication equipment service provider. Starting in 2019, we began to engage in international business, with 30 employees serving more than 200 customers in 30 countries. We sell well-known telecom power supply brands (Emerson, Vertiv, Huawei, ZTE, Eltek, Eaton, Delta), including telecom power supplies, power modules, telecom indoor and outdoor cabinets, network cabinets, UPS, batteries, data centers, room cooling, Precision air conditioners, etc. We will provide high-quality products, reasonable prices, timely delivery and excellent after-sales service. Our business tenet is "Quality First, Honest Development, and Win-win Cooperation". We welcome new and old customers from all over the world to contact us to establish future business relationships and create brilliance together!





02

Embedded power system

02

Embedded power system

BRAND: VERTIV/EMERSON



Configuration model	NetSure 212 C23-S1/S2
System capacity	40A
Monitoring module	M225s (RS232 interface)
Rectifier module	20A(R48-1000A)
AC distribution	S1 input: adopt iec60320 C14 national standard socket S2 input: 3P fence terminal (L + N + PE)
AC lightning protection	Class C (optional)
DC distribution	Battery shunt: 1 × 30A (fuse) Battery power down: 2 × 20A, 6 × 10A (fuse)
DC lightning protection	≥ 10kA (optional)
Mechanical parameters	483mm (width) × 290mm deep × 44mm (high) (19 inches 1U high), ≤ 10kg (excluding module)
Installation mode	Embedded

Configuration model	NetSure 531 A31-S1/S2/S3	NetSure 531 A32-S1
System capacity	90A	90A
Monitoring module	S1: m221s (RS232 interface, network interface) S2: m830b (RS232 interface, network port, USB port) S3: m225s (RS232 interface)	M221s (RS232 interface, network port)
Rectifier module	30A(R48-2000A3、R48-2000e3 optional)	30A(R48-2000A3、R48-2000e3 optional)
AC distribution	Input: 1 × 63A / 2p (circuit breaker)	Input: 1 × 40A / 2p (hydraulic air switch)
AC lightning protection	Class C (optional)	Class C (optional)
DC distribution	Battery shunt: 2 × 63A / 1p (circuit breaker) Battery power down: 1 × 50A/1P, 3 × 32A/1P, 4 × 16A / 1p (circuit breaker)	Battery shunt: 2 × 50A / 1p (hydraulic air switch) Battery power down: 1 × 40A/1P, 2 × 30A/1P, 3 × 20A / 1p (hydraulic air switch)
DC lightning protection	≥10kA(optional)	≥10kA(optional)
Mechanical parameters	483mm (width) × 310mm deep × 132mm (high) (19 inches 3U high), ≤ 15kg (excluding module)	483mm (width) × 310mm deep × 88mm (high) (19 inches 2U high), ≤ 12kg (excluding module)
Installation mode	Embedded	Embedded

02

Embedded power system

BRAND: VERTIV/EMERSON



Configuration model	NetSure 531 A41-S2	NetSure 531 A41-S3	NetSure 531 A41-S4
System capacity	120A	120A	120A
Monitoring module	M221s (RS232 interface, network port)	M830b (RS232 interface, network port, USB port)	M225s (RS232 interface)
Rectifier module	30A (R4S-2000A3, R4S-2000e3 optional)	30A (R4S-2000A3, R4S-2000e3 optional)	30A (R4S-2000A3, R4S-2000e3 optional)
AC distribution	Input: 1 × 63A / 2p (circuit breaker) Output: 1 × 16A / 1p (circuit breaker)	Input: 1 × 63A / 2p (circuit breaker)	Input: 1 × 63A / 2p (circuit breaker) Output: 1 × 16A / 1p (circuit breaker)
AC lightning protection	Class C	Class C (optional)	Class C
DC distribution	Battery shunt: 2 × 63A / 1p (circuit breaker) Power under load: 2 × 63A/1P, 2 × 32A / 1p (circuit breaker) Battery power down: 2 × 16A / 1p (circuit breaker)	Battery shunt: 2 × 63A / 1p (circuit breaker) Power under load: 2 × 63A/1P, 2 × 32A / 1p (circuit breaker) Battery power down: 2 × 32A/1P, 2 × 10A / 1p (circuit breaker)	Battery shunt: 2 × 63A / 1p (circuit breaker) Power under load: 2 × 63A/1P, 2 × 32A/1P2 × 16A / 1p (circuit breaker) Battery power down: 2 × 16A / 1p (circuit breaker)
DC lightning protection	≥ 10kA	≥ 10kA (optional)	≥ 10kA
Mechanical parameters	483mm (width) × 310mm deep × 178mm (high) (19 inches 4U high), ≤ 25kg (excluding module)	483mm (width) × 310mm deep × 178mm (high) (19 inches 4U high), ≤ 25kg (excluding module)	483mm (width) × 310mm deep × 178mm (high) (19 inches 4U high), ≤ 25kg (excluding module)
Installation mode	Embedded	Embedded	Embedded

Configuration model	NetSure 731 A41-S1	NetSure 731 A41-S2	NetSure 731 A41-S8
System capacity	200A	200A	200A
Monitoring module	M225s (RS232 interface)	M221s (RS232 interface, network interface) / m222s (RS232 interface)	M830b (RS232 interface, network port, USB port)
Rectifier module	50A (R4S-3000A3, R4S-3000e3 optional)	50A (R4S-3000A3, R4S-3000e3 optional)	50A (R4S-3000A3, R4S-3000e3 optional)
AC distribution	Input: 1 × 125A / 2p (circuit breaker) Output: 1 × 16A / 1p (circuit breaker)	Input: 1 × 125A / 2p (circuit breaker) Output: 1 × 16A / 1p (circuit breaker)	Input: 1x125a / 2P
AC lightning protection	Class C	Class C	Class C
DC distribution	Battery shunt: 2 × 125A / 1p (circuit breaker) Power under load: 2 × 63A/1P, 4 × 32A/1P, 2 × 16A / 1p (circuit breaker) Battery power down: 2 × 32A/1P, 2 × 16A / 1p (circuit breaker)	Battery shunt: 2 × 125A / 1p (circuit breaker) Power under load: 2 × 63A/1P, 4 × 32A/1P, 2 × 16A / 1p (circuit breaker) Battery power down: 2 × 32A/1P, 2 × 16A / 1p (circuit breaker)	Battery shunt: 2 × 125A / 1p (circuit breaker) Power under load: 2 × 63A/1P, 4 × 32A/1P, 2 × 16A / 1p (circuit breaker) Battery power down: 2 × 32A/1P, 2 × 16A / 1p (circuit breaker)
DC lightning protection	≥10kA	≥10kA	≥10kA
Mechanical parameters	483mm (width) × 400mm deep × 178mm (high) (19 inches 4U high), ≤ 25kg (excluding module)	483mm (width) × 400mm deep × 178mm (high) (19 inches 4U high), ≤ 25kg (excluding module)	483mm (width) × 400mm deep × 178mm (high) (19 inches 4U high), ≤ 25kg (excluding module)
Installation mode	Embedded	Embedded	Embedded

02 Embedded power system

BRAND: VERTIV/EMERSON



Configuration model	NetSure 731 A91-S1	NetSure 731 A91-S2	NetSure 731 A91-S3
System capacity	540A	540A/450A	450A
Monitoring module	M830b (RS485 interface, USB, network port)	M530b (RS485 interface, USB, network port)	M830b (RS485 interface, USB, network port)
Rectifier module	60A (R48-3500e3)	60A (R48-3500e3) /50A (R48-3000e3)	50A (R48-3000e3)
AC distribution	Input: 1 × 100A / 4P (circuit breaker)		
AC lightning protection	Class C		
DC distribution	Battery shunt: 4 × 125A / 1p (circuit breaker) Power under load: 3 × 63A/1P, 3 × 32A/1P, 2 × 16A / 1p (circuit breaker) Battery power down: 2 × 63A/1P, 2 × 32A/1P, 2 × 16A / 1p (circuit breaker)		
DC lightning protection	≥20kA		
Mechanical parameters	483mm (width) × 400mm deep × 352mm (high) (19 inches 8U high), ≤ 25kg (excluding rectifier module)		
Installation mode	Embedded		



Configuration model	NetSure 2100 A31-S1	NetSure 2100 A31-S2	NetSure 2100 A31-S3
System capacity	40A	60A	60A
Monitoring module	M225s (RS232 interface)	M225s (RS232 interface)	M831a (RS485 interface, network port)
Rectifier module	20A(R48-1000e3)	20A(R48-1000e3)	20A(R48-1000e3)
AC distribution	Input: 1 and N inputs adopt quick plug terminals, and PE adopts screws		
AC lightning protection	Class C (optional)		
DC distribution	Battery shunt: 1 × 30A (hydraulic air switch) Battery power down: 1 × 20A, 2 × 10A (hydraulic air switch)	Battery shunt: 1 × 50A (hydraulic air switch) Battery power down: 2 × 30A, 1 × 10A, 1 × 3A (hydraulic air switch)	Battery shunt: 1 × 50A (hydraulic air switch) Battery power down: 2 × 30A, 1 × 10A, 1 × 3A (hydraulic air switch)
DC lightning protection	≥ 10kA (optional)		
Mechanical parameters	483mm (width) × 240mm deep × 44mm (high) (19 inches 1U high), ≤ 4kg (excluding rectifier module)		
Installation mode	Embedded		

02 Embedded power system

BRAND: DPC

6U



System Configuration			
	Project	300A	
System configuration, subject to the physical object	Overall dimension W*D*H	444*362*255(mm)	
	Input format	Single phase three wire system	Three phase five wire system
	Rectifier module	≤ 6 sets	≤ 6 sets
	AC input	Circuit breaker 63A/2P	Circuit breaker 63A/4P
	AC SPD	Class C lightning arrester (optional)	
	DC output	Primary power down circuit breaker 63A/1P*3 32A/1P*1 16A/1P*2 Secondary power down 16A/1P*2 32A/1P*1	Primary power down:Circuit breaker 100A/1p*4 63A/1P*1 32A/1P*1 Power on Circuit breaker 32A/1P*2 16A/1P*1
work environment	Temperature range	Working environment temperature: - 25 ~ + 45C; Storage ambient temperature: - 45 ~ + 70c;	
	Humidity range	Working relative humidity: ≤ 90% (40 soil 2C) (no condensation); Storage relative humidity: ≤ 95% (40 ± 2C) (no condensation);	
	Atmospheric pressure requirements	Atmospheric pressure (altitude): 70 ~ 106kpa (altitude: 0 ~ 3000m). Note: the system shall be derated for use under the operating environment above 3000m altitude. For each 200m	
	AC input voltage	304~475Vac(Phase voltage 176~275Vac)Rated current output, Derating output at 156 ~ 304vac (phase voltage 90 ~ 176vac)	
	Input frequency	47.5~65Hz	
	Rated DC voltage	- 48VDC	
	Voltage stabilizing working range	-42 ~ - 58vdc (rated load)	
	Efficiency	≥94% (40%~90% Load rate)	

02

Embedded power system

BRAND: DPC

9U



		System Configuration			
Project		120A	300A	600A	
System configuration, subject to the physical object	Overall dimension W*D*H	444*362*399(mm)		444*362*531.5(mm)	
	Input format	Single phase three wire system		Three phase five wire system	
	Rectifier module	≤4 sets	≤ 6 sets	≤ 12 sets	
	AC input	Circuit breaker 32A/2P		Circuit breaker 63A/4P	
	AC SPD	Class C lightning arrester			
	Battery Input	100A*2		125A*4	
DC output circuit breaker	Primary power down:32A/1P*8 16A/1P*2 6A/1P*1 Power off of electric protection (secondary) 25A/1P*3 6A/1P*1	Customer 1 ~ 3:Primary power down:100A/1P*1 16A/1P*1 6A/1P*1 Power off of electric protection (secondary)25A/1P*1 Customer 4:Primary power down:63A/1P*1 Power off of electric protection	Primary power down: 125A/1P*6 63A/1P*1 Power off of electric protection (secondary)63A/1P*1 32A/1P*2	Customer 1 ~ 3:Primary power down:125A/1P*2 Power off of electric protection (secondary)63A/1P*1 Customer 4:Primary power down:63A/1P*1 Power off of electric protection (secondary)32A/1P*2	
work environment	Temperature range	Working environment temperature: - 25 ~ + 45C; Storage ambient temperature: - 45 ~ + 70c;			
	Humidity range	Working relative humidity: ≤ 90% (40 soil 2C) (no condensation);			
	Atmospheric pressure requirements	Atmospheric pressure (altitude): 70 ~ 106kpa (altitude: 0 ~ 3000m). Note: the system shall be derated for use under the operating environment above 3000m altitude. For each 200m increase in altitude, the working environment temperature will be reduced by 1C.			
	AC input voltage	304~475Vac(Phase voltage 176~275Vac)Rated current output,Derating output at 156 ~ 304vac (phase			
	Input frequency	47.5~65Hz			
	Rated DC voltage	- 48VDC			
	Voltage stabilizing working range	-42 ~ - 58vdc (rated load)			
	Efficiency	≥94% (40%~90%			

02

(Embedded power system)

BRAND: ZTE

B201



Zxdu68 B201 is a large capacity, high efficiency and small volume embedded DC power supply system, with a height of 5u, high efficiency rectifier module and maximum capacity of 200A.

Features high efficiency rectifier

- It is applicable to the voltage range of 85vac ~ 295vac
- Compatible with zxd3000 and zxd2000 Rectifiers
- Support web remote access and computer remote management
- It supports batch setting parameters and copying historical data using USB flash disk
- Rectifier Quy shortcut key, convenient and fast query and fault location
- Provide dry node, RJ45, RS232, RS485 and USB interfaces to meet Telnet, HTTP FTP and SNMP networking requirements

B301



ZTE ZXDU68B301(5g special) embedded power supply, 48v300a power supply parameters

Operating temperature: - 40 °C ~ + 55 °C;

Storage temperature: - 40 °C ~ + 70 °C;

Relative humidity: 10% ~ 90%;

Waterproof and dustproof: IP55;

Input mode: three-phase five wire system (L1 / L2 / L3 / N / PE);

Rated input voltage: line voltage 380 VAC, phase voltage 220 VAC;

Voltage range: phase voltage 176 VAC ~ 300 VAC;

B900



Equipped with a new generation of rectifier module, it has higher power density, higher efficiency and wider working temperature range. Wide input voltage range: 80vac ~ 300VAC, applicable to a wide range of power grids.

The plug-in box structure is adopted, and the rectifier adopts hot plug mode, which is convenient for installation and maintenance.

It integrates AC and DC power distribution, rectifier and monitoring unit, with light weight, small volume and perfect functions. High performance surge suppression device is adopted, which has strong power surge protection performance. Input: 80 ~ 300VAC



03

UPS

03 Liebert GXT5



Unity power factor (PF=1.0)
More active power available so more loads can be connected versus lower power factor systems thus saving space and cost.

Even high efficiency up to 98% in Active ECO mode
Superior protection with maximum efficiency.

High efficiency up to 94% in on-line mode
Higher efficiency means optimized energy management and lower heat dissipation, thus providing energy and cost savings.

Colored graphic LCD display with gravity orientation
User friendly interface to know UPS status and configuration.

Battery cabinets with auto-detection*
Be confident your UPS is set up correctly to report available run time when used with external battery cabinets.

Rack / Tower design with short depth and flexible to install
A more compact UPS that will use less floor space, and leaves more space available for data equipment in a rack.

Intelligent Battery Management
New algorithm to estimate Battery health status and replacement date prediction.

Model Number	GXT5-750IRT2UXL	GXT5-1000IRT2UXL	GXT5-1500IRT2UXL	GXT5-2000IRT2UXL	GXT5-3000IRT2UXL
Rating (VA/W)	750 VA / 750 W	1000 VA / 1000 W	1500 VA / 1500 W	2000 VA / 2000 W	3000 VA / 3000 W
Dimensions and Weight					
Dimensions (mm) Unit, WxDxH	400x430x85		470x430x85		540x430x85
Unit Weight (kg)	165		21		285
Input					
Rated Voltage	230 VAC				
Rated Frequency	50 Hz / 60 Hz				
Frequency Range	40 to 70 Hz				
Power Factor	≥0.99				
Output					
Nominal Voltage	200/208/220/230/240 VAC				
Waveform	Sine wave				
Inverter Overload Capability	>200% minimum 250 ms; 150 to 200% for 2 seconds; 125 to 150% for 50 seconds; 105 to 125% for 60 seconds				>200% minimum 250 ms; 150 to 200% for 2 seconds; 105 to 150% for 55 seconds
Efficiency in Online Mode	Up to 93%				Up to 94%
Inverter Bypass	Up to 98%				
Output Receptacles	(8) EN60320/C13				(6) EN60320/C13 (1) EN60320/C19
Internal Battery					
Rated Voltage	36 Vdc		48 Vdc		72 Vdc
Charger Current	Nominal 2.2 A; Maximum 8 A				
Type	Valve-regulated, non-spillable, lead acid				
Qty x V x Rating	3 x 12 V x 9.0 Ah		4 x 12 V x 9.0 Ah		6 x 12 V x 9.0 Ah
End Cell Voltage	1.67 V/cell (discharge voltage per cell will be from 1.67 Vdc to 1.90 Vdc, can be selected by PARAMSET)				
Floating Voltage	Equalize charge: 2.35 V/cell Float charge: 2.27 V/cell				
Battery Voltage Range	30 Vdc to 42.3 Vdc		40 Vdc to 56.4 Vdc		60 Vdc to 84.6 Vdc
General					
Operating Temperature	Full power up to 40 °C (up to 50 °C with derating)				
Storage Temperature, °C	- 15 to + 40				
Relative Humidity	0 to 95% non-condensing				
Operating Elevation	Up to 3000 m at 25°C without derating				
Audible Noise	<46 dBA max @ 3 ft. (1 m) front and sides <43 dBA max @ 3 ft. (1 m) rear		<46 dBA max @ 3ft. (1 m) front and sides <45 dBA max @ 3 ft. (1 m) rear		<48 dBA max @ 3ft. (1m) front and sides <48 dBA max @ 3 ft. (1 m) rear
Safety	UL-1788 (Fifth Edition), C-UL listed, IEC 62040-1:2017 Edition 2.0, EN 62040-1:2008+A1:2013				
RF/EMI	CISPR22 Class A (RFI) / FCC Part 15 (Class A)				

03

**EXS series of highly efficient
and flexible integrated UPS**



03

EXS series of highly efficient and flexible integrated UPS

Technical specifications			
Rated capacity (KVA)	30	40 60	80
Physical parameters			
Dimensions (W×D×H mm)		440 × 750 × 1600 600×850×1600	
Weight (kg)	180	200 245	260
Input characteristics (rectifier)			
Rated input voltage		380/400/415V AC, three phase four wire	
Rated operating frequency		50/60Hz	
Input voltage range		228~475V	

Input power factor		>0.99	
Input current Harmonic (THDi)		<3%	
The dc feature			
Built-in battery		optional	
Output characteristics (inverter)			
The inverter outputs voltage		380/400/415VAC, three phase four wire	
Output power factor		1	



The work environment			
Operating temperature range		0~40°C	
Storage temperature		-40~+70 (Don't take the battery)	
Relative humidity		5% ~ 95%, no condensation	
Maximum operating height		When the altitude is less than or equal to 1500m, the load decreases by 1% for every 100m increase between 1500m and 3000m	
Noise (1M)		<60dB	
Protection level		IP20 (IP31 optional)	

Voltage stability steady state		< ±1%	
Transient voltage stability		< ±5%	
The bypass			
Bypass input voltage		380/400/415VAC, three phase four wire	
Bypass voltage range		The value ranges from -40% to +20%	
system			
frequency		50/60Hz	
Mains synchronization tracking range		It can be set within ±3Hz	
The efficiency of the system		As much as 96.5%	

03 ITA2 series



Bypass the input voltage range	The value ranges from -40% to +20%
System parameters	
Installation	Rack type, tower type compatible
The machine efficiency	As much as 96.5%
The machine efficiency	4
Noise (1 m)	<55dB
Protection grade	IP20
Environmental parameters	
Operating temperature	0 ~ 40°C does not derate, 50°C derate to 70%
Relative humidity	0~95%
Maximum altitude	3000 m not derating

Technical specifications	
Nominal capacity	
Physical parameters	30kVA
Volume (W * D * H) mm)	430×500×130
Net weight (kg)	23.5
The input parameters	
Rated input voltage	380/400/415 VAC, three phase four wire
The input voltage range	173~498V
Input frequency range	40Hz~70Hz
Input current harmonic content	<3%
The input power factor	≥0.99
Output parameters	
The rated voltage	380/400/415 VAC, three phase four wire
Output power factor	1
The output voltage stability	±1%
The output voltage waveform distortion rate	< 2% (linear load), < 4% (nonlinear load)
The peak factor	3:01
The bypass parameters	
Bypass the input voltage	380/400/415 VAC, three phase four wire

03

Liebert GXE



2KVA/3KVA STANDARD MODEL



2KVA/3KVA LONG DELAY MODEL



1KVA STANDARD MODEL



1KVA LONG DELAY MODEL

03

Liebert GXE

parameter		Product model		
		GXE01k00TS1101C00/ GXE 01k00TL1101C00	GXE 02k00TS1101C00 / GXE 02k00TL1101C00	GXE03k00TS1101C00 /GXE03k00TL1101C00
Model class		1000VA/800W	2000VA/1600W	3000VA/2400W
The input	Voltage range (rated)	120Vac to 288Vac, rated at 220Vac, full load up to full input voltage range		
	The power factor	0.99		
	frequency	45 hz ~ 65 hz; The adaptive		
The output	voltage	220Vac±1%, 230/240Vac±3%		
	The power factor	0.8		
	frequency	45Hz to 55Hz (50Hz system); 55Hz to 65Hz (60Hz system)		
	waveform	Sine wave		
	Current peak factor	3:1		
	Voltage distortion	≤ 3% rated linear load, ≤ 5% rated nonlinear load		
	Overload capacity	Rated input: 105% ~ 130%, 10min; 130% ~ 150%, 1min; > 150%, 500ms		

03

Liebert GXE

The battery	type	Valve-controlled sealed lead-acid battery		
	Quantity * voltage * capacity	3×12V×7Ah (standard machine)	6×12V×7Ah (standard machine)	6×12V×9Ah (standard machine)
	Mark machine battery backup time	> 4 min		
	Charging current	Long unit 8A Max (automatically matching the maximum charging current according to the battery capacity set by the user)		
	Recharge time	The UPS automatically shuts down after discharging at 100% load and charging to 90% of battery capacity within 6 hours (standard machine)		
The environment	Working temperature	0°C ~ + 40°C		
	Storage temperature	- 40°C ~ + 70°C		
	Relative humidity	Up to 6,600 ft (2000m) at 40 ° C without derating		
	Working altitude	Up to 6,600 ft (2000m) at 40 ° C without derating		
	The noise	< 45dB		
Communications and Management	Communication interface	Db-9 RS-232, TYPE B USB		
	SNMP Remote Management	External SNMP is optional		

03

Liebert GXE

installation		tower		
Switch time		0ms		
Efficiency of the whole machine (in mains mode)		≥91%	≥93%	
safety		EN62040-1: 2008		
Electromagnetic compatibility	CE/RE	IEC/EN/AS 62040-22nd Ed =CISPR22 Class A		
	surge	IEC/EN 61000-4-5, Level 3 (2kV) (BETWEEN L and N), Level 2 (between L and N)		
Dimensions (WIDTH × height × depth, mm)	The bare	156×255×295 (standard machine)	156×255×466 (standard machine)	156×255×466 (standard machine)
		156×150×295 (long engine)	156×150×466	156×150×466
Weight (kg)	The bare	12 (standard machine) /4 (long machine)	22 (standard machine) /7 (long machine)	25 (standard machine) /7 (long machine)
	packaging	13 (standard machine) /5 (long machine)	24 (standard machine) /8 (long machine)	27 (standard machine) /8 (long machine)
color		Black RAL7021		

03

Liebert NX



03

Liebert® EXL S1

Nominal capacity	300kVA	400kVA	500kVA	600kVA	800kVA	1000kVA	1200kVA
Physical parameters							
Width x depth (mm)	1000x900	1000x900	1250x900	1600x900	2000x900	2650x900	2650x900
High (mm)	1950						
Weight (kg)	725	800	1000	1150	1550	2155	2300
Input characteristics (rectifier)							
Rated input voltage	380/400/415VACVAC, three phase three wire						
Rated operating frequency	50Hz/60Hz						
Input voltage range	200-478VAC						
Input frequency range	40Hz-70Hz						
Input power factor	201-0.99						
Input current harmonic							
The dc feature	<3%1%						
Charger output voltage regulator accuracy	<1%						
Dc ripple low pressure							
Output characteristics (inverter)	Up to 1						

03

Liebert® EXL S1



Output power factor

The inverter outputs voltage		380/400/415VAC
Voltage stability	The steady state	<±1%
	The transient	<±5%
Overload capacity		125%10 minutes, 150% 1 minute
Phase voltage symmetry with balanced load		±1%
Phase voltage symmetry with 100% unbalanced load		±1%
Total harmonic content	100% linear load	<1%
	100% nonlinear load	<3%
The bypass		
Bypass input voltage		380/400/415VAC, three phase four wire
Bypass voltage range		278-460VAC range, other values can be set by software

03

Liebert® EXL S1



system

Measured frequency accuracy (internal clock)	± 0.02%
System efficiency (double transformation)	As much as 97%
System efficiency (Dynamic online mode)	As much as 99%
System efficiency (ECO)	As much as 99%
Weaver number	Up to 8 direct parallel machines
The work environment	
Operating temperature range	0 ~ 40°C
Storage temperature	-25 ~ 70°C (excluding battery)
Relative humidity	5~95% no condensation
Maximum operating height	\leq When the altitude is 1000m, the system derates 1% for every 100m increase from 1000m to 3000m
Noise (1m)	<70dB
Protection level	IP20
Conform to the standard	Safety: IEC60950-1, IEC62040-1-1, UL1778. Electromagnetic compatibility IEC62040-2. Design and test IEC62040-3



04

Precision air conditioners

04

Liebert DataMate3000 Small equipment room precision air conditioner



Vertiv Liebert®DataMate3000 Series air cooled air conditioners for the equipment room

indoormodel	model	The total amount of cold (kW)	Show cold quantity (kW)	Air volume (m3 / h)	Add heat (kW)	Humidification quantity (Far infrared)	FLA(A)	Standard condenser	Cryogenic condenser
	DME05MCP5 used by	5.5	5				7.5	DMC05WT1	DML07W1
5.5kW	DME05MOP5 heating	5.5	5	2000	4		12.2		
	DME05MHP5 Heat and humidify	5.5	5		4	1.5	12.2		
	DME07MCP5 used by	7.5	7				7.5		
7.5kW	DME07MOP5 heating	7.5	7	2000	4		12.2	DMC07WT1	DML07W1
	DME07MHP5 is heated and humidified	7.5	7		4	1.5	12.2		
	DME12MCP5 used by	12.5	11.5				15.2		
12.5kW	DME12MOP5 heating	12.5	11.5	3100	4		17.6		
	DME12MHP5 is heated and humidified	12.5	11.5		4	1.5	18.3	DMC12WT1	DML12W1

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Liebert DataMate3000 Small equipment room precision air conditioner

Vertiv Liebert® DataMate3000 Series
High Energy Efficiency
Air conditioner (EC fan)



type	model	The total amount of cold (kW)	The cold quantity (kW)	Air volume (m3/h)	Add heat (kW)	Humidification (far infrared)	FL A (A)	Standard condenser	Cryogenic condenser
	DME05MCP6 used by					kg/h"	7.5		
	DME05MCP6 used by	5.5	5	2000	4		12.5	DMC05WT1	DML07W1
	DME05MHP6 Heat and humidify				4	1.5	12.5		
	DME07MCP6 used by						7.5		
Air cooling	DME07MOP6 heating	7.5	7	2000	4		12.5	DMC07WT1	DML07W1
	DME07MHP6 Is heated and humidified				4	1.5	12.5		
	DME12MCP6 used by						15		
	DME12MOP6 heating	12.5	11.5	2000	4		18	DMC12WT1	DML12W1
	DME12MHP6 is heated and humidified				4	1.5	19		
type	model	The total amount of cold (kW)	The cold quantity (kW)	Air volume (m3/h)	Add heat (kW)	Humidification (far infrared)	FL A (A)	Standard condenser	Cryogenic condenser
	DME05MCW6 used by						7.5		
	DME05MOW6 heating	5.5	5	2000	4		12.5	DMW05	
	DME05MHW6 Heating and humidifying				4	1.5	12.5		
	DME07MCW6 used by						7.5		
Water cooled	DME07MOW6 heating	7.5	7	2000	4		12.5	DMW07	
	DME07MHW6 Heating and humidifying				4	1.5	12.5		
	DME12MCW6 used by						15		
	DME12MOW6 heating	12.5	11.5	3100	4		18	DMW12	
	DME12MHW6 Is heated and humidified				4	1.5	19		

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Liebert DataMate3000 Small equipment room precision air conditioner



**Vertiv Liebert® DataMate3000 Series water cooled air
conditioners for the equipment room**

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Liebert DataMate3000 Small equipment room precision air conditioner

Product series (ordinary fan water cooling)								
Indoor machine	model	The total amount of cold (kW)	The cold quantity (kW)	Air volume (m3/h)	Add heat (kW)	Humidification (far infrared)	FLA(A)	Cooling heat exchanger
	DME05MCW5 used by	5.5	5			kg/h"	7.5	Type"
5.5kW	DME05MOW5 heating	5.5	5	2000	4		12.2	DMW05
	DME05MHW5 Heating and humidifying	5.5	5		4	1.5	12.2	
	DME07MCW5 used by	7.5	7				7.5	
7.5kW	DME07MOW5 heating	7.5	7	2000	4		12.2	DMW07
	DME07MHW5 Heating and humidifying	7.5	7		4	1.5	12.2	
	DME12MCW5 used by	12.5	11.5				15.2	
12.5kW	DME12MOW5 heating	12.5	11.5	3100	4		17.6	DMW12
	DME12MHW5 Is heated and humidified	12.5	11.5		4	1.5	18.3	
Water-cooled heat exchanger								
model	Water flow m3/h	The pressure drop (kPa)	Length × width × height (mm)	Weight (kg)				
DMW05	1.55	14	843×533×700	35				
DMW07	1.65	15	843×533×700	35				
DMW12	2.9	25	843×533×700	40				
Product dimensions and weight								
models	model	Length × width × height (mm)	Weight (kg)					
Indoor machine	DME05	510×385×1850	95					
	DME07	510×385×1850	95					
(Air cooled water cooled universal)	DME12	600×500×1975	150					
	DMC05WT1	787×352×829	40					
Low temperature outdoor unit	DMC07WT1	787×352×829	40					
	DMC12WT1	787×352×1240	60					
	DML07W1	1037×352×829	53					
Low temperature outdoor unit	DML12W1	1037×352×1240	95					

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Liebert DataMate3000 Small equipment room precision air conditioner



**Vertiv Liebert®DataMate3000
series 17KW air cooled air
conditioner**

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Liebert DataMate3000 Small equipment room precision air conditioner

Product series (common fan)									
Indoor machine	model	The cold quantity	Show cold quantity	Air volume (m3/h)	Add heat (kW)	Humidification (far infrared)	FLA(A)	Standard condenser	Low temperature type
	DME17MCP7 used by	17	15.5		5.5	kg/h"	12		
17kW	DME17MOP7 heating	17	15.5	4300	5.5	3	25	DMC17WT3	Non-standard indoor machine
	DME17MHP7 is heated and humidified	17	15.5		5.5	3	25		
Product dimensions and weight									
models	model	Length × width × height (mm)	Weight (kg)						
Indoor machine (air cooling water cooling universal)	DME17	750×650×1975	230						
seg	DMC17WT3	950×400×1245	85						

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Liebert DataMate3000 Small equipment room precision air conditioner



Vertiv™ Liebert® Datamate3000-2
series 22 / 27kw special air
conditioner for machine room



04

Liebert DataMate3000 Small equipment room precision air conditioner

Product series (common fan)					
type		DME22M*0U*1	DME22M*0F*1	DME27M*0UP1	DME27M*0FP1
Cooling capacity and sensible cooling capacity (kW)	24°C	22	22	28.1	28.1
	50%RH	19.8	19.8	25.3	25.3
	Standard air volume (m3/h)	6000	6300	7000	8100
fan	The fan stations	1	1	1	1
	External static pressure (Pa)	20-50	20-50	20-50	20-50
The compressor	The number of	1	1	1	1
Electric heating	Power (kW)	6 (optional)	6 (optional)	6 (optional)	6 (optional)
Infrared humidifier	Humidification quantity (kg/h)	3 (optional)	3 (optional)	3 (optional)	3 (optional)
Dimensions (W×D×H,mm)					
Net weight (kg)		253	253	248	283
Electrical parameters	Maximum current	26.8	26.8	26.8	30.3
	Air switch	40	40	40	40
Product dimensions and weight					
models		Overall dimension (W) × D × H,mm	Net weight of equipment (kg)		
	DMC22M*1	1120 * 520 * 1280 (vertical installation) 1265 * 1120 * 985 (horizontal installation)	104		
Outdoor unit	DMC27M*1	1320 * 520 * 1490 (vertical installation) 1475 * 1320 * 985 (horizontal installation) "	120		
	LVC088SE4	1100 * 2330 * 1744 (vertical installation)	315		

Vertiv™ Liebert® PEX AC



National CQC energy-saving certification



P1030~P1050 Top/bottom air supply



P2060~P2100 Top/bottom air supply

parameter		Unit Type	P1025	P1030	P1040	P1 050 (Single)	P1050 (Double)	P2060	P2070	P2080	P2090	P2100
air supply	Cooling capacity (kW)		26.8	31.5	41.6	52.4	51.8	63.1	70.1	83.3	90.3	104.7
	Sensible cooling capacity (kW)		24.1	28.4	37.4	47.2	46.6	56.7	63.1	74.9	81.3	94.3
	Standard air volume ym ³ /hy		9000	10000	13000	15000	15000	20000	22500	26000	30000	30000
Downdraft	Cooling capacity (kW)		26.8	31.6	41.6	52.5	51.9	63.1	70.1	83.4	90.5	104.9
	Sensible cooling capacity (kW)		24.1	28.4	37.5	47.2	46.7	56.8	63.1	75.0	81.4	94.4
	Standard air volume ym ³ /hy		9000	10000	15000	15000	15000	20000	22500	30000	30000	30000
fan	Number of fans		1	1	1	1	1	2	2	2	2	2
	type		AC									
	External static pressure (Pa)		0~250									
compressor	quantity		1	1	1	1	2	2	2	2	2	2
Electric heating	Power (kW)		6	6	9	9	9	9	9	12	12	12
humidifier	Humidification capacity (kg/h)		5					10				
	humidifying water tray		Stainless steel									
filter	grade		G4									
Net weight (kg)			350	360	370	420	470	650	660	670	750	760
Dimensions (W×D×H) mm			930×995×1975			1130×995×1975		1830×995×1975			2230×995×1975	
FLA/Ay			26.5	32	43	50	50	59	64.5	77	83.5	90

Vertiv™ Liebert® CRV4

Liebert® CRV4 green data center Inter-refrigeration ideal product

- Environmentally friendly R410A refrigerant
- Up to 100% reliability
- Extreme inter-column refrigeration efficiency
- Innovative and reliable full frequency conversion technology
- Excellent control and performance.
- Fast service and technical support.

Higher energy efficiency and less floor space than more cooling capacity.

Intelligent HMI touch screen

- 7-inch large touch screen
- Advanced group control for multiple units
- Graphical display of device operation and environmental status
- Multiple remote rack temperature sensors can be connected externally.
- RS485 interface is standard, and SNMP and TCP/ IP interfaces are optional.



Inter-row cooling efficiency in the industry

Flexible refrigeration

- Accurate control of temperature and humidity
- Adapt to various supply/return air temperatures and different load changes.
- The output of refrigerating capacity and air volume can be automatically adjusted with the change of load.
- Intelligent group control can realize regional coordination of unbalanced load.

Whole life cycle low cost

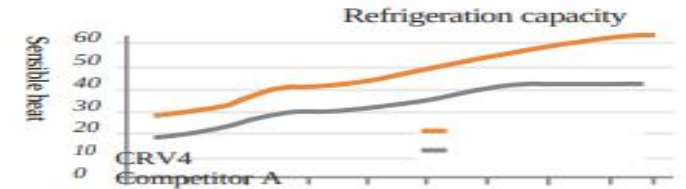
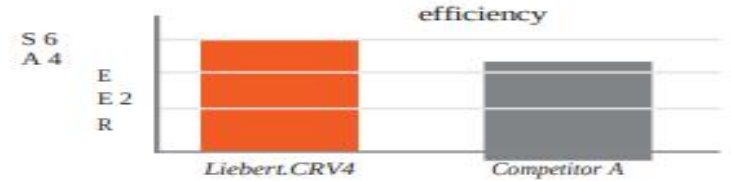
- Optimal air volume design of EC fan
- All-frequency conversion technology reduces energy consumption
- High return air temperature design to improve energy efficiency
- Compact design, reduce the cost of building occupation

high reliability

- FEA professional seismic test
- Strict certification of high-quality devices
- Expert self-diagnosis and fault warning function
- Operation of automatic balancing device prolongs system life.

Diversified configuration

- Can solve high heat density or local hot spots.
- Can solve the refrigeration of up to 30kW/ cabinet.
- Optional wet film humidification, saving energy consumption of humidification system.
- Used in solutions such as modular data centers.
- It can meet the requirements of multiple cabinets and is suitable for cold/hot channel sealing.
- Used in the machine room with or without anti-static floor or insufficient floor height.
- The air supply grille can be adjusted to meet the left and right air supply directions of different occasions.

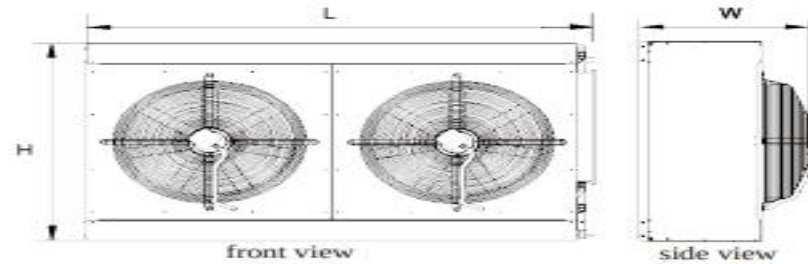


model	CR012	CR025	CR035	CR045	CR060
Cooling mode	wind cooling				
Refrigeration capacity (kW)	18.8	30.6	42.5	51.2	62.6
Air volume (m ³ /h)	forty-two 00	55 00	eighty-five 00	0 , 1020	0 , 1025
refrigerant	R410A				
Heating quantity (kW)	2	three	six	six	six
Humidification (kg/h)	\	1.5 (Max 3)	1.5 (Max 3)	1.5 (Max 3)	1.5 (Max 3)
FLA (A)	19.1	24.1	33.4	45.7	46.0
Power supply system	380Vac/50 ~ 60Hz				
Net weight (kg)	21 five	23 five	32 0	33 five	34 0
Width× depth× height (mm)	300×1100×2000	300×1100×2000	600×1100×2000	600×1100×2000	600×1100×2000

Remarks:


1. Test conditions: 380V/50Hz 3N ~ ~, supply air temperature 24°C 1, outdoor condensation temperature 45°C.
2. If the required data is not listed in the table, please contact Viti Technology Co., Ltd.

Flat condenser LSF series centralized condenser VCC series



Model	weight (kg)		Overall dimension (mm)		
	quantity		L	H	W
LSF38-R3	12	one	13	99 0	sixty-nine five
	0		84		
LSF42-R3	13	one	15	12 73	sixty-nine five
	0		84		
LSF52-R3	14	one	15	12 73	sixty-nine five
	0		84		
LSP62-R3	15	2	18	12 73	sixty-eight nine
	0		84		
LSF70-R3	15	2	18	12 73	sixty-eight nine
	0		84		
LSF76-R3	22	2	23	12 73	sixty-nine five
	0		84		
LSF85-R3	23	2	23	12 73	sixty-nine five
	0		84		

model	weight (kg)	Overall dimension (mm)		
		L	H	W
LVC088	31 five	23 30	17 forty-four	11 00
LVC106	34 0	23 30	17 forty-four	11 00
LVC140	41 five	23 30	2222	12 50



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