

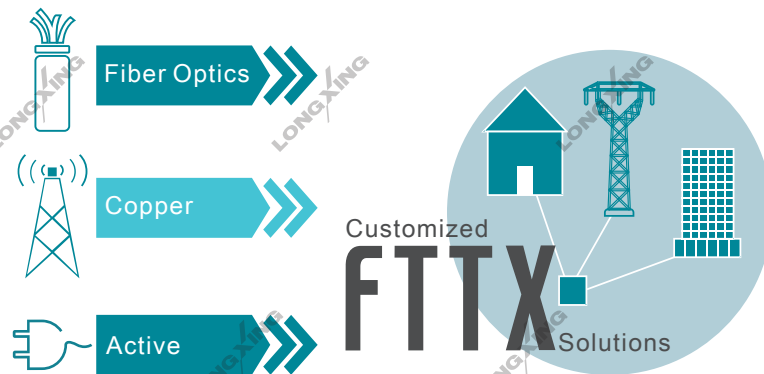


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Telecom Power Solutions |



Products & Services



- ◆ Customised FTTx Solutions
- ◆ Optical Fiber Distribution Frames
- ◆ Patch Panels
- ◆ Distribution Boxes (Optical & Copper)
- ◆ Cross-Connect Cabinets (Optical & Copper)
- ◆ Outdoor Cabinets
- ◆ Network Rack Cabinets
- ◆ Optical Cable Splice Closures
- ◆ Optical Cable Tray / Raceway Systems
- ◆ Power Solutions (PDU & Heat Exchangers & Rectifier Modules & Switching Power Supply)
- ◆ Optical Splitters
- ◆ Optical Distribution Modules / Splice Tray
- ◆ Fiber Optic Adapters / Patch Cords / Pigtails
- ◆ Optical Tools / Accessories
- ◆ Digital Distribution Frames
- ◆ Busbar Trunking System

Qualification



ISO 14001



ISO 9001



Quality Guarantee



Alibaba Assessment

History of LongXing



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Power Supply System



LX4860S- [Grey Box] - [Blue Box]

Efficiency
S = Standard
M = Medium
H = High

Monitor
1 = LX1800D
2 = LX2000
3 = LX2200

Ordering Example:

LX4860S-M-1 : Medium efficiency, LX1800D Monitor.

More relevant designs for your reference.

Item	Mounting	Capacity	Reference Dimensions (mm)	Rectifier	Rectifiers Quantities
4860S	Rack-mounted	48V 60A	1Ux482.6x378	1800	2
4890S	Rack-mounted	48V 90A	3Ux482.6x378	1800	3
48120S	Rack-mounted	48V 120A	6Ux482.6x378	1800	4
48200S	Rack-mounted	48V 200A	6Ux482.6x378	3000	4
48400S	Rack-mounted	48V 400A	9Ux482.6x378	3000	8
48500S	Rack-mounted	48V 500A	10Ux482.6x378	3000	10
48200B	Wall-mounted	48V 200A	701.5x500x350	3000	4
481000C	Inndor Cabinet Type	48V 1000A	2200x600x600	3000	20

Rack-mounted Power Supply 4860S



Power Specifications

	Specification	Remark
Input voltage	85~300V/45~65Hz	TN/TT grounding system
Output voltage	-42~58.5V	Nominal -53.5V
Rectifier power	1800W	LXPower1800/1800M/1800H
Surge current capacity	/	/
	/	/

Mechanical Specifications

Parts	Dimension(H*W*D)/mm	Weight/kg
Subrack	1Ux482.6x378	/
Rectifier module	40.5x106x298.5	1.7
Monitor	42.5x85x230	0.8
Battery chamber	/	/
Mounting	19" rack	/

Rack-mounted Power Supply 4860S

Overview

The LXPower4860S is specially designed to meet the demand for compact, flexible, high performance, high reliability power supply. The system consists of 1-2 units LXPower1800 high/standard efficiency rectifier modules of their mixture, a LX1800D(1800) monitor module, AC/DC distributors. 19 inches and 1U height standard structure adapts to various telecom cabinets and racks.

Features

- Cost effective solution: high integrated power supply including rectifier modules, controller, distributions
- Easy maintenance: hot plug rectifier module and fully front-access maintenance system for wall against or corner mounting
- Advanced battery management improves battery lifespan, especially suitable for poor AC mains application
- Extreme wide input voltage: 85V ~ 300V AC
- Extreme wide operation temperature: -30°C ~ +65°C
- High/standard efficiency rectifier modules are compatible
- 1U height compact design
- System rated capacity: -53.5V DC/60A
- Whole monitor ports, RS485, dry contactors
- LCD display with a state-of-the-art interface allows simple and convenient local set up, control and remote monitor
- Design standards: IEC/EN60950

Applications

- Marco BTS sites
- Enterprise
- Broadband access
- Optical fiber transmission system

Operation Ambient		
Item	Specification	Remark
Storage temperature	-40~+70°C	/
Operation temperature	-30~+65°C	/
Safety	/	According to EN60950 and IEC60950
Communication	RS232+dry contact+SNMP	/
Operation moisture	10~95%	Non-condensing

System Configuration				
Model	DC Capacity	Rectifiers	Monitor	Battery Access
LXPower4860S	48V/60A	1~2 units	LX2000	1~2 strings

Distribution		
	LXPower4860S	Remark
AC input	220V	/
Battery	1 positive terminal; 1 negative terminal	/
DC output	1 positive terminal; 1 negative terminal	/
/	/	/

Rack-mounted Power Supply 4890S



Power Specifications

	Specification	Remark
Input voltage	85~300V/45~65Hz	TN/TT grounding system
Output voltage	-42~58.5V	Nominal -53.5V
Rectifier power	1800W	LXPower1800/1800M/1800H
Surge current capacity	Nominal 20kA(8/20us), Max.40kA	AC input surge protection
	/	/

Mechanical Specifications

Parts	Dimension(H*W*D)/mm	Weight/kg
Subrack	3Ux482.6x378	/
Rectifier module	40.5x106x298.5	1.7
Monitor	42.5x85x230	0.8
Battery chamber	/	/
Mounting	19" rack	/

Rack-mounted Power Supply 4890S

Overview

The LXPower4890S is specially designed to meet the demand for compact, flexible, high performance, high reliability power supply. The system consists of 1-3 units LXPower1800 high/standard efficiency rectifier modules of their mixture, a LX2000 monitor module, AC/DC distributors. 19 inches and 3U height standard structure adapts to various telecom cabinets and racks.

Features

- Cost effective solution: high integrated power supply including rectifier modules, controller, lightning protection, distributions
- Easy maintenance: hot plug rectifier module and fully front-access maintenance system for wall against or corner mounting
- Advanced battery management improves battery lifespan, especially suitable for poor AC mains application
- Extreme wide input voltage: 85V ~ 300V AC
- Extreme wide operation temperature: -30°C ~ +65°C
- High/standard efficiency rectifier modules are compatible
- 3U height compact design
- System rated capacity: -53.5V DC/90A
- Whole monitor ports, RS232/485/SNMP, dry contactors
- LCD display with a state-of-the-art interface allows simple and convenient local set up, control and remote monitor
- Design standards: IEC/EN60950

Applications

- Macro/micro BTS sites
- GSM-R
- Enterprise
- Broadband access
- Optical fiber transmission system

Operation Ambient		
Item	Specification	Remark
Storage temperature	-40~+70°C	/
Operation temperature	-30~+65°C	/
Safety	/	According to EN60950 and IEC60950
Communication	RS232+dry contact+SNMP	/
Operation moisture	10~95%	Non-condensing

System Configuration				
Model	DC Capacity	Rectifiers	Monitor	Battery Access
LXPower4890S	48V/90A	1~3 units	LX2000	1 string

Distribution		
	LXPower4890S	Remark
AC input	32A/2P*1	/
Battery	63A/1P*1	/
DC output	16A/1P*2+32A/1P*3	LLVD standard configuration
/	16A/1P*2+10A/1P*1	BLVD standard configuration

Rack-mounted Power Supply 48120S



Power Specifications

	Specification	Remark
Input voltage	85~300V/45~65Hz	TN/TT grounding system
Output voltage	-42~58.5V	Nominal -53.5V
Rectifier power	1800W	LXPower1800/1800M/1800H
Surge current capacity	Nominal 20kA(8/20us), Max.40kA	AC input surge protection
	Nominal 10kA(8/20us), Max.20kA	DC output surge protection

Mechanical Specifications

Parts	Dimension(H*W*D)/mm	Weight/kg
Subrack	6Ux482.6x378	/
Rectifier module	40.5x106x298.5	1.7
Monitor	42.5x85x230	0.8
Battery chamber	/	/
Mounting	19" rack	/

Rack-mounted Power Supply 48120S

Overview

The LXPower48120S is specially designed to meet the demand for compact, flexible, high performance, high reliability power supply. The system consists of 4 units LXPower1800 high/medium/standard efficiency rectifier modules of their mixture, a LX2000 monitor module, AC/DC distributors. 19 inches and 6U height standard structure adapts to various telecom cabinets and racks. Rectifier high efficiency is up to 97%, standard efficiency up to 92%.

Features

- Cost effective solution: high integrated power supply including rectifier modules, controller, lightning protection, distributions
- Easy maintenance: hot plug rectifier module and fully front-access maintenance system for wall against or corner mounting
- Advanced battery management improves battery lifespan, especially suitable for poor AC mains application
- Extreme wide input voltage: 85V ~ 300V AC
- Extreme wide operation temperature: -30°C ~ +65°C
- High/standard efficiency rectifier modules are compatible
- 6U height compact design
- System rated capacity: -53.5V DC/120A
- Whole monitor ports, RS232/485/SNMP, dry contactors
- LCD display with a state-of-the-art interface allows simple and convenient local set up, control and remote monitor
- Design standards: IEC/EN60950

Applications

- Macro/micro BTS sites
- GSM-R
- Enterprise
- Broadband access
- Optical fiber transmission system

Operation Ambient		
Item	Specification	Remark
Storage temperature	-40~+70°C	/
Operation temperature	-30~+65°C	/
Safety	/	According to EN60950 and IEC60950
Communication	RS232+dry contact+SNMP	/
Operation moisture	10~95%	Non-condensing

System Configuration				
Model	DC Capacity	Rectifiers	Monitor	Battery Access
LXPower48120S	48V/120A	4 units	LX2000	1~2 strings

Distribution		
	LXPower48120S	Remark
AC input	63A/2P*1	/
Battery	125A/1P*2	/
DC output	63A/1P*2+32A/1P*2+16A/1P*2	LLVD standard configuration
/	10A/1P*2	BLVD standard configuration

Rack-mounted Power Supply 48200S



Power Specifications

	Specification	Remark
Input voltage	85~300V/45~65Hz	TN/TT grounding system
Output voltage	-42~58.5V	Nominal -53.5V
Rectifier power	3000W	LXPower3000/3000M/3000H
Surge current capacity	Nominal 20kA(8/20us), Max.40kA	AC input surge protection
	/	/

Mechanical Specifications

Parts	Dimension(H*W*D)/mm	Weight/kg
Subrack	6Ux482.6x378	/
Rectifier module	113x84x232	2.4
Monitor	42.5x85x230	0.8
Battery chamber	/	/
Mounting	19" rack	/

Rack-mounted Power Supply 48200S

Overview

The LXPower48200S is specially designed to meet the demand for compact, flexible, high performance, high reliability power supply. The system consists of 1-4 units LXPower3000 high/standard efficiency rectifier modules of their mixture, a LX2000 monitor module, AC/DC distributors. 19 inches and 6U height standard structure adapts to various telecom cabinets and racks. Rectifier high efficiency is up to 97%, standard efficiency up to 92%.

Features

- Cost effective solution: high integrated power supply including rectifier modules, controller, lightning protection, distributions
- Easy maintenance: hot plug rectifier module and fully front-access maintenance system for wall against or corner mounting
- Advanced battery management improves battery lifespan, especially suitable for poor AC mains application
- Extreme wide input voltage: 85 ~ 300V AC
- Extreme wide operation temperature: -30 ~ +65°C
- High/standard efficiency rectifier modules are compatible
- 6U height compact design
- System rated capacity: -53.5V DC/200A
- Whole monitor ports, RS232/485/SNMP, dry contactors
- LCD display with a state-of-the-art interface allows simple and convenient local set up, control and remote monitor
- Design standards: IEC/EN60950

Applications

- Macro BTS sites
- GSM-R
- Enterprise
- Broadband access
- Optical fiber transmission system

Operation Ambient		
Item	Specification	Remark
Storage temperature	-40~+70°C	/
Operation temperature	-30~+65°C	/
Safety	/	According to EN60950 and IEC60950
Communication	RS232+dry contact+SNMP	/
Operation moisture	10~95%	Non-condensing

System Configuration				
Model	DC Capacity	Rectifiers	Monitor	Battery Access
LXPower48200S	48V/200A	1~4 units	LX2000	1~2 strings

Distribution		
	LXPower48200S	Remark
AC input	63A/2P*1	/
Battery	100A/1P*2	/
DC output	32A/1P*4	LLVD standard configuration
/	10A/1P*2	BLVD standard configuration

Rack-mounted Power Supply 48400S



Power Specifications

	Specification	Remark
Input voltage	85~300V/45~65Hz	TN/TT grounding system
Output voltage	-42~58.5V	Nominal -53.5V
Rectifier power	3000W	LXPower3000/3000M/3000H
Surge current capacity	Nominal 20kA(8/20us), Max.40kA	AC input surge protection
	Nominal 10kA(8/20us), Max.20kA	DC output surge protection

Mechanical Specifications

Parts	Dimension(H*W*D)/mm	Weight/kg
Subrack	9Ux482.6x378	/
Rectifier module	84*106*242	1.7
Monitor	42.5x85x230	0.8
Battery chamber	/	/
Mounting	19" rack	/

Rack-mounted Power Supply 48400S

Overview

The LXPower48400S is specially designed to meet the demand for compact, flexible, high performance, high reliability power supply. The system consists of 1-8 units LXPower3000 high/standard efficiency rectifier modules of their mixture, a LX2000 monitor module, AC/DC distributors. 19 inches and 8U height standard structure adapts to various telecom cabinets and racks. Rectifier high efficiency is up to 97%, standard efficiency up to 92%.

Features

- Cost effective solution: high integrated power supply including rectifier modules, controller, lightning protection, distributions
- Easy maintenance: hot plug rectifier module and fully front-access maintenance system for wall against or corner mounting
- Advanced battery management improves battery lifespan, especially suitable for poor AC mains application
- Extreme wide input voltage: 85V ~ 300V AC
- Extreme wide operation temperature: -30°C ~ +65°C
- High/standard efficiency rectifier modules are compatible
- 3U height compact design
- System rated capacity: -53.5V DC/400A
- Whole monitor ports, RS232/485/SNMP, dry contactors
- LCD display with a state-of-the-art interface allows simple and convenient local set up, control and remote monitor
- Design standards: IEC/EN60950

Applications

- Macro/micro BTS sites
- GSM-R
- Enterprise
- Broadband access
- Optical fiber transmission system

Operation Ambient		
Item	Specification	Remark
Storage temperature	-40~+70°C	/
Operation temperature	-30~+65°C	/
Safety	/	According to EN60950 and IEC60950
Communication	RS232+dry contact+SNMP	/
Operation moisture	10~95%	Non-condensing

System Configuration				
Model	DC Capacity	Rectifiers	Monitor	Battery Access
LXPower48400S	48V/400A	1~8 units	LX2000	1~2 strings

Distribution		
	LXPower48400S	Remark
AC input	63A/3P*1	/
Battery	100A/1P*2	/
DC output	63A/1P*3+32A/1P*4	LLVD standard configuration
/	16A/1P*5	BLVD standard configuration

Rack-mounted Power Supply 48500S



Power Specifications

	Specification	Remark
Input voltage	85~300V/45~65Hz	TN/TT grounding system
Output voltage	-42~58.5V	Nominal -53.5V
Rectifier power	3000W	LXPower3000/3000M/3000H
Surge current capacity	Nominal 20kA(8/20us), Max.40kA	AC input surge protection
	Nominal 10kA(8/20us), Max.20kA	DC output surge protection

Mechanical Specifications

Parts	Dimension(H*W*D)/mm	Weight/kg
Subrack	10Ux482.6x378	/
Rectifier module	113x84x232	2.4
Monitor	42.5x85x230	0.8
Battery chamber	/	/
Mounting	19" rack	/

Rack-mounted Power Supply 48500S

Overview

The LXPower48500S is specially designed to meet the demand for compact, flexible, high performance, high reliability power supply. The system consists of 1-10 units LXPower3000 high/standard efficiency rectifier modules of their mixture, a LX2000 monitor module, AC/DC distributors. 19 inches and 7U height standard structure adapts to various telecom cabinets and racks. Rectifier high efficiency is up to 97%, standard efficiency up to 92%.

Features

- Cost effective solution: high integrated power supply including rectifier modules, controller, lightning protection, distributions
- Easy maintenance: hot plug rectifier module and fully front-access maintenance system for wall against or corner mounting
- Advanced battery management improves battery lifespan, especially suitable for poor AC mains application
- Extreme wide input voltage: 85V ~ 300V AC
- Extreme wide operation temperature: -30°C ~ +65°C
- High/standard efficiency rectifier modules are compatible
- 10U height compact design
- System rated capacity: -53.5V DC/500A
- Whole monitor ports, RS232/485/SNMP, dry contactors
- LCD display with a state-of-the-art interface allows simple and convenient local set up, control and remote monitor
- Design standards: IEC/EN60950

Applications

- Macro/micro BTS sites
- GSM-R
- Enterprise
- Broadband access
- Optical fiber transmission system

Operation Ambient		
Item	Specification	Remark
Storage temperature	-40~+70°C	/
Operation temperature	-30~+65°C	/
Safety	/	According to EN60950 and IEC60950
Communication	RS232+dry contact+SNMP	/
Operation moisture	10~95%	Non-condensing

System Configuration				
Model	DC Capacity	Rectifiers	Monitor	Battery Access
LXPower48500S	48V/500A	1~10 units	LX2000	1~2 strings

Distribution		
	LXPower48500S	Remark
AC input	125A/3P*1	/
Battery	100A/1P*2	/
DC output	63A/1P*2+32A/1P*3	LLVD standard configuration
/	32A/1P*4	BLVD standard configuration

Wall-mounted Power Supply 48200B



Power Specifications

	Specification	Remark
Input voltage	85~300V/45~65Hz	TN/TT grounding system
Output voltage	-42~58.5V	Nominal -53.5V
Rectifier power	3000W	LXPower3000/3000M/3000H
Surge current capacity	Nominal 20kA(8/20us), Max.40kA	AC input surge protection
	Nominal 10kA(8/20us), Max.20kA	DC output surge protection

Mechanical Specifications

Parts	Dimension(H*W*D)/mm	Weight/kg
Subrack	701.5x500x350	/
Rectifier module	40.5x106x298.5	2.4
Monitor	42.5x85x230	0.8
Battery chamber	/	/
Mounting	Wall Mounted	/

Wall-mounted Power Supply 48200B

Overview

The LXPower48200S is specially designed to meet the demand for compact, flexible, high performance, high reliability power supply. The system consists of 1-4 units LXPower483000 high/medium/standard efficiency rectifier modules of their mixture, a LX2000 monitor module, AC/DC distributors. Adapt to various indoor and outdoor scenes of installation, battery rack mounting, with secondary protection measures.

Features

- Cost effective solution: high integrated power supply including rectifier modules, controller, lightning protection, distributions
- Wall mounted installation, 200A capacity & flexible power distribution integrated on the door
- Easy maintenance: hot plug rectifier module and fully front-access maintenance system for wall against or corner mounting
- Advanced battery management improves battery lifespan, especially suitable for poor AC mains application
- Extreme wide input voltage: 85V ~ 300V AC
- Extreme wide operation temperature: -30°C ~ +65°C
- High/standard efficiency rectifier modules are compatible
- System rated capacity: -53.5V DC/200A
- Whole monitor ports, RS232/485/SNMP, dry contactors
- LCD display with a state-of-the-art interface allows simple and convenient local set up, control and remote monitor
- Design standards: IEC/EN60950

Applications

- Macro/micro BTS sites
- GSM-R
- Enterprise
- Broadband access
- Optical fiber transmission system

Operation Ambient		
Item	Specification	Remark
Storage temperature	-40~+70°C	/
Operation temperature	-30~+65°C	/
Safety	/	According to EN60950 and IEC60950
Communication	RS232+dry contact+SNMP	/
Operation moisture	10~95%	Non-condensing

System Configuration				
Model	DC Capacity	Rectifiers	Monitor	Battery Access
LXPower48200B	48V/200A	1~4 units	LX2000	1~2 strings

Distribution		
	LXPower48200B	Remark
AC input	63A/2P*1	/
Battery	63A/1P*2	/
DC output	63A/1P*2+32A/1P*3	LLVD standard configuration
/	32A/1P*3	BLVD standard configuration

Indoor Cabinet Power Supply 481000C



Power Specifications

	Specification	Remark
Input voltage	85~300V/45~65Hz	TN/TT grounding system
Output voltage	-42~58.5V	Nominal -53.5V
Rectifier power	3000W	LXPower3000/3000M/3000H
Surge current capacity	Nominal 20kA(8/20us), Max.40kA	AC input surge protection
	Nominal 10kA(8/20us), Max.20kA	DC output surge protection

Mechanical Specifications

Parts	Dimension(H*W*D)/mm	Weight/kg
Subrack	465x378x400	/
Rectifier module	84x106x242	2.4
Monitor	85x230x42.5	0.8
Battery chamber	/	/
Mounting	600x600x2200	/

Indoor Cabinet Power Supply 481000C

Overview

The LXPower481000C is specially designed to meet the demand for compact, flexible, high performance, high reliability power supply. The system consists of 1-20 units LXPower483000high/medium/standard efficiency rectifier modules of their mixture, a LX2000 monitor module, AC/DC distributors. Adapt to ground mounting.

Features

- Cabinet type design
- Customized size available upon request
- Easy maintenance: hot plug rectifier module and fully front-access maintenance system for wall against or corner mounting
- Advanced battery management improves battery lifespan, especially suitable for poor AC mains application
- Extreme wide input voltage: 85V ~ 300V AC
- Extreme wide operation temperature: -30°C ~ +65°C
- High/standard efficiency rectifier modules are compatible
- System rated capacity: -53.5V DC/1000A
- Whole monitor ports, RS232/485/SNMP, dry contactors
- LCD display with a state-of-the-art interface allows simple and convenient local set up, control and remote monitor
- Design standards: IEC/EN60950

Applications

- Macro/micro BTS sites
- GSM-R
- Enterprise
- Broadband access
- Optical fiber transmission system

Operation Ambient		
Item	Specification	Remark
Storage temperature	-40~+70°C	/
Operation temperature	-30~+65°C	/
Safety	/	According to EN60950 and IEC60950
Communication	RS232+dry contact+SNMP	/
Operation moisture	10~95%	Non-condensing

System Configuration				
Model	DC Capacity	Rectifiers	Monitor	Battery Access
LXPower481000C	48V/1000A	1~20 units	LX2000	1~2 strings

Distribution		
/	LXPower481000C	Remark
AC input	100A/3P*2	/
Battery	500A*2	/
DC output	160A*5+63A*3	LLVD standard configuration
/	100A*6	BLVD standard configuration

Overview

LX2000 is the new generation DC power controller module developed by LongXing. The Controller module adopts ARM7 CPU as primary controller, and RTOS as system platform. LX2000 offers many features and functions, and a more robust, user-friendly, and easy-to-use interface.

Features

- Flexible and scalable to satisfy your present and future needs
- Smart battery management gives long battery life-span
- Automatic battery test including advanced scheduled test / constant test / fast test
- Lower operating cost due to energy saving standby function for rectifier
- Log record and statistic with advanced algorithm
- Minimized installation time as a result of easily configurable file upload/download



Applications

- Indoor/outdoor power supply

In addition to controlling of rectifier modules, AC/DC distribution, LX2000 manages battery charge, discharge, test, maximizes battery capacity and lifespan. With improved memory, LX2000 can store mass alarm/event and data logs for system performance analysis and fault diagnose. DI/DO connectors and RS232/Ethernet ports provide flexible extension function and parameters setting, software and logs downloading/uploading, remote monitor system accessing.

DC output

Measurement	Analog value measurement
	Digital value measurement
Communication	The Controller can communicate with the host computer in three modes: RS232, RS485 and Ethernet (WEB and SNMP). It can communicate with the rectifiers in RS485 mode.
	For remote and local monitor system via WEB browser, controlling, parameters upload/download, data load.
	SNMP protocol supports GET, SET and TRAP on Ethernet.
DI/DO	8 user digital input interfaces freely configurable
	8 groups of dry contact outputs freely configurable
Screen and Leds	High resolution LCD screen display running information and local setting interface
	Green/Yellow/Red LEDS indicate running status for local instant diagnose.
Alarm history, event history store	200 alarms history and 1000 events history store, FIFO for system analysis.
Data log store(advanced version)	2000 data logs including bus voltage, load current, battery current and temperature with time tag.

Power Supply Monitor LX2000

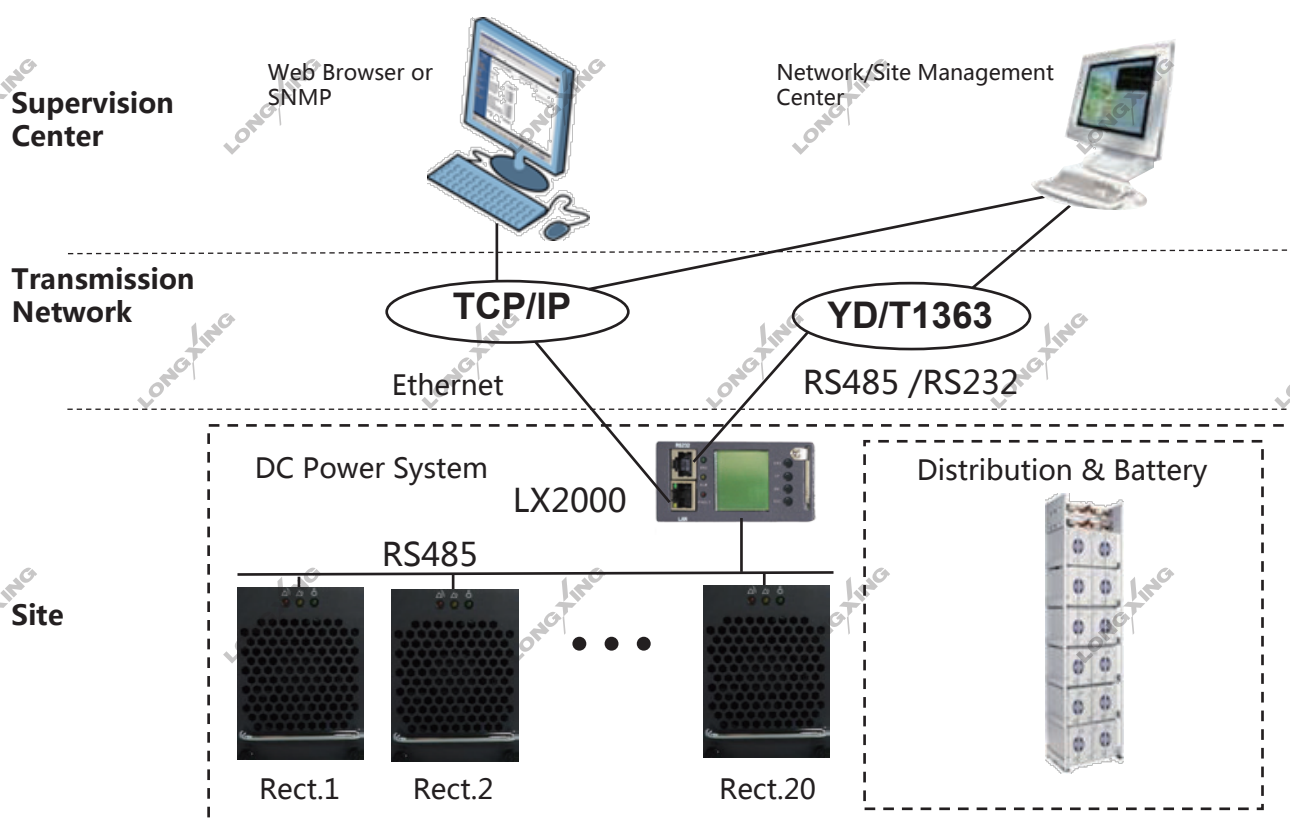
DC output

Remote Metering	Remote Control	Battery Management	Energy Saving Mode
<ul style="list-style-type: none"> • AC voltage • Bus voltage • Load current • Battery current • Battery temperature • Ambient temperature • Rectifier modules voltage/current 	<ul style="list-style-type: none"> • Equilizing and floating charge of rectifier module • Voltage regulating of rectifier module • Current limiting of rectifier module • On/Off control of rectifier module • Load disconnect • Battery disconnect 	<ul style="list-style-type: none"> • Boost Charge • Temperature Compensation • Battery Test • Low Voltage Disconnection • Battery Capacity Prediction 	<ul style="list-style-type: none"> • High/standard efficiency modules mixture management • Modules running cyclic • Modules running dormancy

Alarms/Events

<ul style="list-style-type: none"> • SPD alarm • Smoke alarm • Door alarm • Water alarm • Configurable digital input alarm • Load fuse alarm • Battery fuse alarm • Manual mode alarm 	<ul style="list-style-type: none"> • Battery boost charge • Battery test • Battery discharge • Current imbalance • Abnormal output voltage • Battery test fail • Load disconnect • Battery disconnect 	<ul style="list-style-type: none"> • AC power failure • System service required • Module communication fail • Module fault • Module fan fault • Module protect • Module on/off status • AC over voltage and under voltage 	<ul style="list-style-type: none"> • DC over voltage and under voltage • Battery charge over-current • Battery temperature alarm • Ambient temperature alarm • Battery imbalance • System energy-saving mode • Abnormal energy-saving
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Site Monitoring Solution



Overview

LX1800D is the new generation DC power controller module developed by LongXing. The Controller module adopts ARM7 CPU as primary controller, and RTOS as system platform. LX1800D offers many features and functions, and a more robust, user-friendly, and easy-to-use interface.



Features

- Flexible and scalable to satisfy your present and future needs
- Smart battery management gives long battery life-span
- Automatic battery test including / constant test / fast test
- Lower operating cost due to energy saving standby function for rectifier

Applications

- Indoor/outdoor power supply

In addition to controlling of rectifier modules, AC/DC distribution, LX1800D manages battery charge, discharge, test, maximizes battery capacity and lifespan. With improved memory, LX1800D can store mass alarm/event and data logs for system performance analysis and fault diagnose. DI/DO connectors and RS232 ports provide flexible extension function and parameters setting, software and logs downloading/uploading, remote monitor system accessing.

DC output

Measurement	Analog value measurement
	Digital value measurement
Communication	The Controller can communicate with the host computer in three modes: RS232, RS485 and. It can communicate with the rectifiers in RS485 mode.
DI/DO	5 user digital input interfaces freely configurable
	2 groups of dry contact outputs freely configurable
Screen and Leds	1800D High resolution LCD screen display running information and local setting interface
	Green/Yellow/Red LEDS indicate running status for local instant diagnose.
Alarm history, event history store	100 alarms history, FIFO for system analysis.

Power Supply Monitor LX1800D

DC output

Remote Metering	Remote Control	Battery Management	Energy Saving Mode
<ul style="list-style-type: none"> • AC voltage • Bus voltage • Load current • Battery current • Battery temperature • Ambient temperature • Rectifier modules voltage/current 	<ul style="list-style-type: none"> • Equilizing and floating charge of rectifier module • Voltage regulating of rectifier module • Current limiting of rectifier module • On/Off control of rectifier module • Load disconnect • Battery disconnect 	<ul style="list-style-type: none"> • Boost Charge • Temperature Compensation • Battery Test • Low Voltage Disconnection • Battery Capacity Prediction 	<ul style="list-style-type: none"> • High/standard efficiency modules mixture management • Modules running cyclic • Modules running dormancy

Alarms/Events

<ul style="list-style-type: none"> • SPD alarm • Smoke alarm • Door alarm • Water alarm • Configurable digital input alarm • Load fuse alarm • Battery fuse alarm • Manual mode alarm 	<ul style="list-style-type: none"> • Battery boost charge • Battery test • Battery discharge • Current imbalance • Abnormal output voltage • Battery test fail • Load disconnect • Battery disconnect 	<ul style="list-style-type: none"> • AC power failure • Module communication fail • Module fault • Module fan fault • Module protect • Module on/off status • AC over voltage and under voltage 	<ul style="list-style-type: none"> • DC over voltage and under voltage • Battery charge over-current • Battery temperature alarm • Ambient temperature alarm • Battery imbalance • System energy-saving mode • Abnormal energy-saving
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Site Monitoring Solution

Supervision Center

Network/Site Management Center

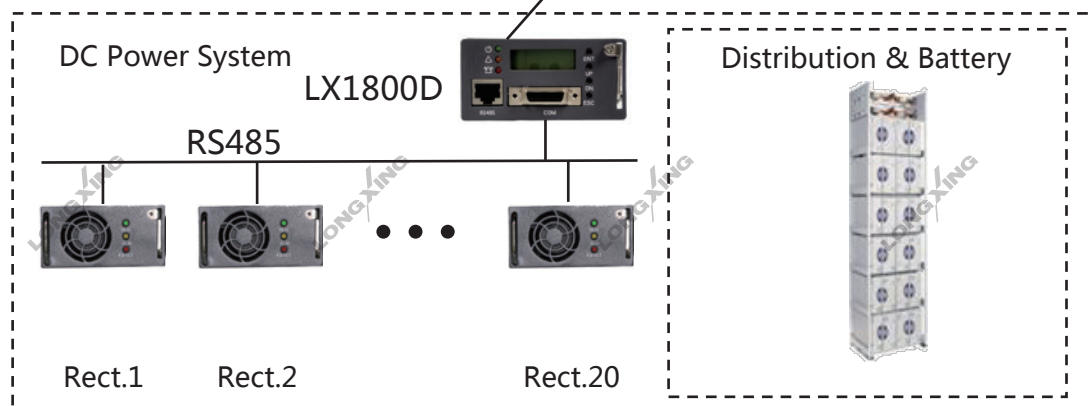


Transmission Network

YD/T1363

RS485

Site





LX1800

Efficiency
S = Standard
M = Medium
H = High

Material
1 = Iron
2 = Plastic

Ordering Example:

LX1800M1: Medium efficiency, Iron panel.

More relevant designs for your reference.

Output power	Efficiency: @220VAC@peak	Material	Height
1800S	≥93.2%	Iron	1U
1800M	≥95.5%	Iron	1U
1800H	≥96.1%	Iron	1U
3000S	≥93.2%	Iron/Plastic	2.5U/2U(P)
3000M	≥95.2%	Iron/Plastic	2.5U/2U(P)
3000H	≥96.4%	Iron/Plastic	2.5U/2U(P)
3000US	≥93.0%	Iron	1U
3000UM	≥95.2%	Iron	1U
3000UH	≥96.0%	Iron	1U

Rectifier 1800 Series

48V 1800W

Overview

The innovative design makes great customer advantages of high efficiency, reliable and cost-effective.

Efficiency

- 1800S: $\geq 93\%$ @220Vac@peak
- 1800M: $\geq 95\%$ @220Vac@peak
- 1800H: $\geq 96\%$ @220Vac@peak



AC input

Voltage	85Vac~ 300Vac (nominal 100Vac to 240Vac)
Frequency	45Hz-65Hz
Power factor	≥ 0.99 @220Vac/50A, ≥ 0.98 @220Vac/25A
Input protection	L-line fuse 15A Varistors for transient protection

DC output

Voltage	+53.5Vdc
Output power	1800W(154Vac~ 300Vac), 900W(85Vac~ 154Vac)
Maximum current	33A
Current sharing	5%
Dynamic voltage regulation	$\pm 5.0\%$ for 10-90% or 90-10% load variation, regulation time < 200us
Load regulation	$\pm 0.5\%$ from 10% to 100% load
Ripple and noise	< 200 mV peak to peak, 30 MHz bandwidth, < 2 mV rms psophometric
Output protection	Overvoltage shutdown Hot swappable - Inrush current limiting Fuse Short circuit proof High temperature protection

DESIGN STANDARDS

Safety	IEC 60950-1
EMC	EN 61000-6
Environment	ETSI EN 300 019-2 RoHS compliant

OTHER SPECIFICATIONS

Isolation	3.0 KVAC – input and output 1.5 KVAC – input earth 0.5 KVDC – output earth
Indicator LEDs	green--normal yellow--protection warning red--failure
Alarms	Low mains shutdown High temperature shutdown Rectifier Failure Output overvoltage shutdown Fan failure
Warnings	Rectifier in power derate mode Remote battery current limit activated Input voltage out of range Low voltage alarm LVD activated
Operating temp	-40 ~ +55°C 100% power output +55 ~ +65°C, 50% power derated output
Storage temp	-40 to +70°C
Cooling fan	temperature regulated air front to back
MTBF	500000 hours
Acoustic noise	50dB
Humidity	10% ~ 95% no condensing
Iron panel	107mm(W)*295mm(D)*42(H)
Weight	1.7kg

Applications

• BTS, fiber and switch telecom

Telecommunication carriers consume more and more energy, reducing the power consumption is carriers' overwhelming society duty, and they have to cut TCO by power saving to face competition.

Standard efficiency and high efficiency modules are mixable to maximize cost-saving and power system efficiency.

• Network access

For medium and small power network access, because of giant numbers, the cost-effective and higher efficiency module are key components of power supply operation in indoor/outdoor harsh environment with high reliability.

• Data center, powers server and computer

The high efficiency module is also designed for data center to replace UPS power, comparing with UPS' s born disadvantage---low efficiency, low reliability, high maintenance cost, the high efficiency module suits for data center excellently.

• Self protection and reliability

DSP control with advanced software ensures the overall functions to meet almost all requirements from customers.

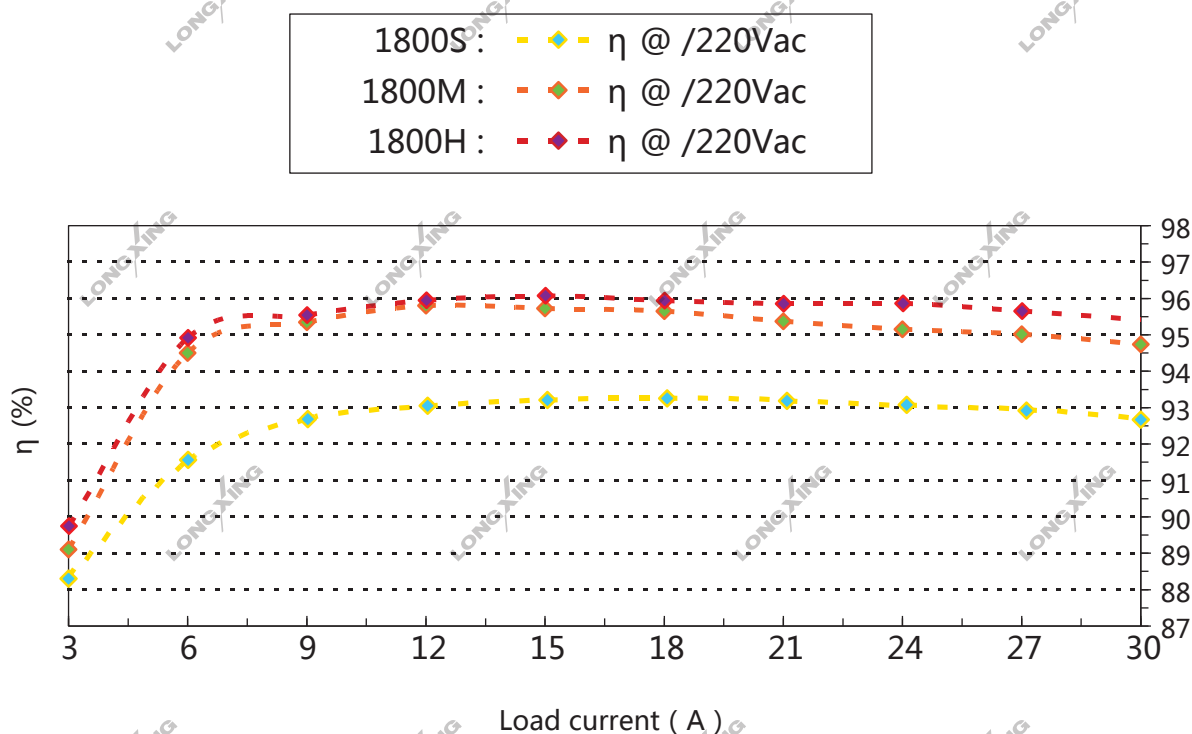
The basic protection of input/output fuse, and input/output low voltage/over voltage protection, also high level protection of power de-rated when input low voltage and high temperature, and temperature regulated fan speed, all these functions create high reliability.

Hot-plug and easy maintenance

The monitor will automatically recognize new plug module and communicate, and communication between modules via RS485 for load sharing even when the monitor is fault.

The module is spring screw locked with its light weight and small dimension, zero setting, the module replacement is non-tool and very easy, the low technology worker is certificated.

output current-Efficiency Curve



Rectifier 3000 Series

48V 3000W

Overview

The innovative design makes great customer advantages of high efficiency, reliable and cost-effective. With up to 93% efficiency, the power loss will be 20% reduced by, as well as a big TCO reduction.

Efficiency

- 3000S: $\geq 93.2\%$ @220Vac@peak,
 $\geq 92.0\%$ @220Vac@100% load
- 3000M: $\geq 95.0\%$ @220Vac@peak,
 $\geq 94.0\%$ @220Vac@100% load
- 3000H: $\geq 96.8\%$ @220Vac@peak,
 $\geq 95.5\%$ @220Vac@100% load



AC input

Voltage	85Vac~ 300Vac (nominal 100Vac to 240Vac)
Frequency	45Hz-65Hz
Power factor	≥ 0.99 @220Vac/50A, ≥ 0.98 @220Vac/25A
Input protection	L-line fuse 25A Varistors for transient protection

DC output

Voltage	+53.5Vdc
Output power	3000W(154Vac~ 300Vac), 1200W(85Vac~ 154Vac)
Maximum current	55A
Current sharing	5%
Dynamic voltage regulation	$\pm 5.0\%$ for 10-90% or 90-10% load variation, regulation time < 200us
Load regulation	$\pm 0.5\%$ from 10% to 100% load
Ripple and noise	< 200 mV peak to peak, 30 MHz bandwidth, < 2 mV rms psophometric
Output protection	Overvoltage shutdown Hot swappable - Inrush current limiting Fuse Short circuit proof High temperature protection

DESIGN STANDARDS

Safety	IEC 60950-1
EMC	EN 61000-6
Environment	ETSI EN 300 019-2 RoHS compliant

OTHER SPECIFICATIONS

Isolation	3.0 KVAC – input and output 1.5 KVAC – input earth 0.5 KVDC – output earth
Indicator LEDs	green--normal yellow--protection warning red--failure
Alarms	Low mains shutdown High temperature shutdown Rectifier Failure Output overvoltage shutdown Fan failure
Warnings	Rectifier in power derate mode Remote battery current limit activated Input voltage out of range Low voltage alarm LVD activated
Operating temp	-40 ~ +55°C 100% power output +55 ~ +65°C, 50% power derated output
Storage temp	-40 to +70°C
Cooling fan	temperature regulated air front to back
MTBF	500000 hours
Acoustic noise	50dB
Humidity	10% ~ 95% no condensing
Iron panel	84mm(W)*232mm(D)*113(H)
Plastic panel	106mm(W)*242mm(D)*84(H)
Weight	2.4kg

Applications

• BTS, fiber and switch telecom

Telecommunication carriers consume more and more energy, reducing the power consumption is carriers' overwhelming society duty, and they have to cut TCO by power saving to face competition.

The LongXing high efficiency module has high efficiency in a wide load range, it's bigger than 92% from 20% to 80% load rate with peak 93%, it benefits from LongXing's standout synchronous resonance technology.

• Network access

For medium and small power network access, the high efficiency module is key component of power supply operation in indoor/outdoor harsh environment with high reliability.

• Data center, powers server and computer

The high efficiency module is also designed for data center to replace UPS power, comparing with UPS's born disadvantage---low efficiency, low reliability, high maintenance cost, the high efficiency module suits for data center excellently.

The power supply for data center, it powers from 3KW to 400KW.

• Self protection and reliability

DSP control with advanced software ensures the overall functions to meet almost all requirements from customers.

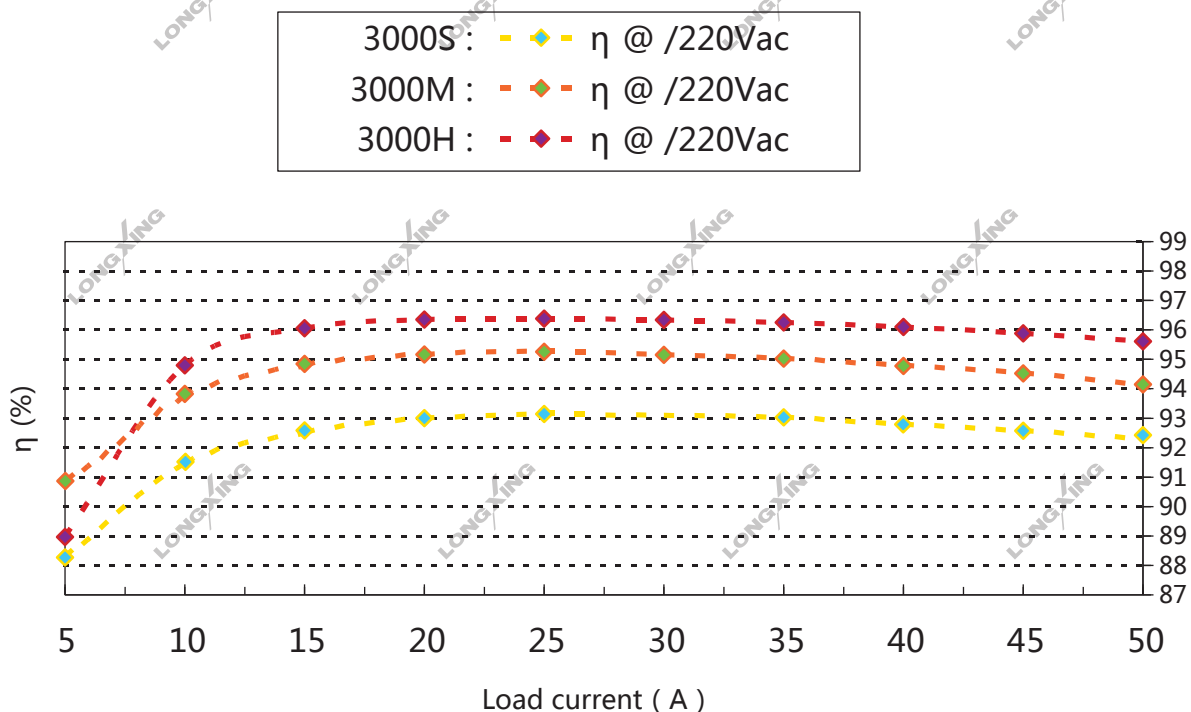
The basic protection of input/output fuse, and input/output low voltage/over voltage protection, also high level protection of power de-rated when input low voltage and high temperature, and temp. regulated fan speed, all these functions create high reliability.

Hot-plug and easy maintenance

The monitor will automatically recognize new plug module and communicate, and communication between modules via RS485 for load sharing even when the monitor is fault.

The module is spring screw locked with its light weight and small dimension, zero setting, the module replacement is non-tool and very easy, the low technology worker is certificated.

output current-Efficiency Curve



Rectifier 3000U Series

48V 3000W

Overview

The innovative design makes great customer advantages of high efficiency, reliable and cost-effective. reduced by, as well as a big TCO reduction.

Efficiency

- 3000US: $\geq 93.0\%$ @220Vac@peak,
 $\geq 92.5\%$ @220Vac@100% load
- 3000UM: $\geq 95.0\%$ @220Vac@peak,
 $\geq 94.0\%$ @220Vac@100% load
- 3000UH: $\geq 96.0\%$ @220Vac@peak,
 $\geq 95.0\%$ @220Vac@100% load



AC input

Voltage	85~300VAC (nominal 100~240VAC)
Frequency	45-65Hz
Power factor	≥ 0.99 @220VAC/50A, ≥ 0.98 @220VAC/25A
Input pretecton	L-line fuse 25A Varistors for transient protection
THD	$\leq 5\%$ (for 50~100% load)

DC output

Voltage	+53.5Vdc
Output power	3000W(175~300Vac), 1200W(85Vac~174Vac)
Maximum current	55A
Current sharing	5%
Dynamic voltage regulation	$\pm 5.0\%$ for 10-90% or 90-10% load variation, regulation time < 200us
Load regulation	$\pm 0.5\%$ from 10% to 100% load
Ripple and noise	< 200 mV peak to peak, 30 MHz bandwidth, < 2 mV rms psophometric
Output protection	Overvoltage shutdown Hot swappable - Inrush current limiting Fuse Short circuit proof High temperature protection

DESIGN STANDARDS

Safety	IEC 60950-1
Output protection	EN 61 000-6-1 (immunity, light industry) EN 61 000-6-2 (immunity, industry) EN 61 000-6-3 (emission, light industry) EN 61 000-6-4 (emission, industry)
Environment	ETSI EN 300 019-2 RoHS compliant

OTHER SPECIFICATIONS

Isolation	3.0 KVAC – input and output 1.5 KVAC – input earth 0.5 KVDC – output earth
Indicator LEDs	green--normal yellow--protection warning red--failure
Alarms	Low mains shutdown High temperature shutdown Rectifier Failure Output overvoltage shutdown Fan failure
Warnings	Rectifier in power derate mode Remote battery current limit activated Input voltage out of range Low voltage alarm LVD activated
Operating temp	-40 ~ +55°C 100% power output +55 ~ +65°C, 50% power derated output
Storage temp	-40 to +70°C
Cooling fan	air flow front to back
MTBF	500000 hours
Acoustic noise	50dB
Humidity	10% ~ 95% no condensing
Iron panel	107×42×295mm(W*H*D)
Weight	2.4kg

Applications

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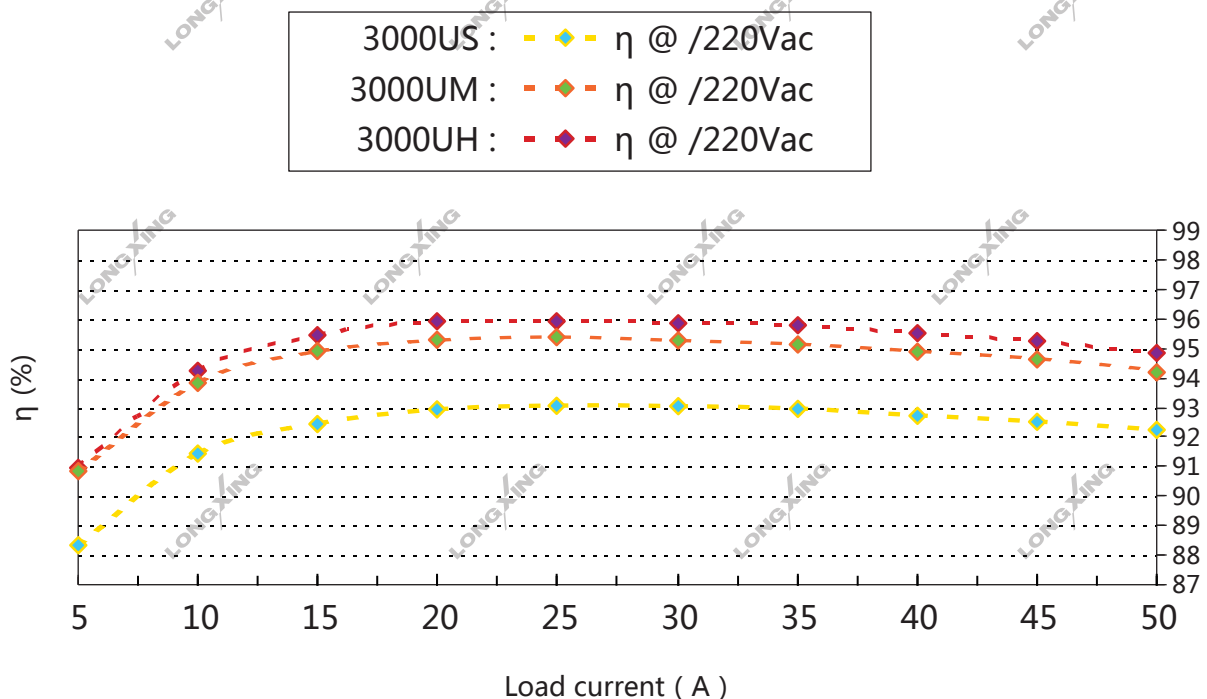
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output current-Efficiency Curve



Remarks:

Remarks:

Remarks:

Factory Overview



Metal Sheet Workshop



Fiber Optic Workshop



Welding Workshop



Laser Cutting



Painting Workshop



Assembly Workshop I



Assembly Workshop II



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LONGXING

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