

Rectifier Module

3000 Series



Plastic panel



Iron panel

AC Input

| | |
|------------------|---|
| Voltage | 85Vac~ 300Vac (nominal 100Vac to 240Vac) |
| Frequency | 45Hz-65Hz |
| Power factor | $\geq 0.99@220\text{Vac}/50\text{A}$, $\geq 0.98@220\text{Vac}/25\text{A}$ |
| 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 |



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

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.

Design Standards

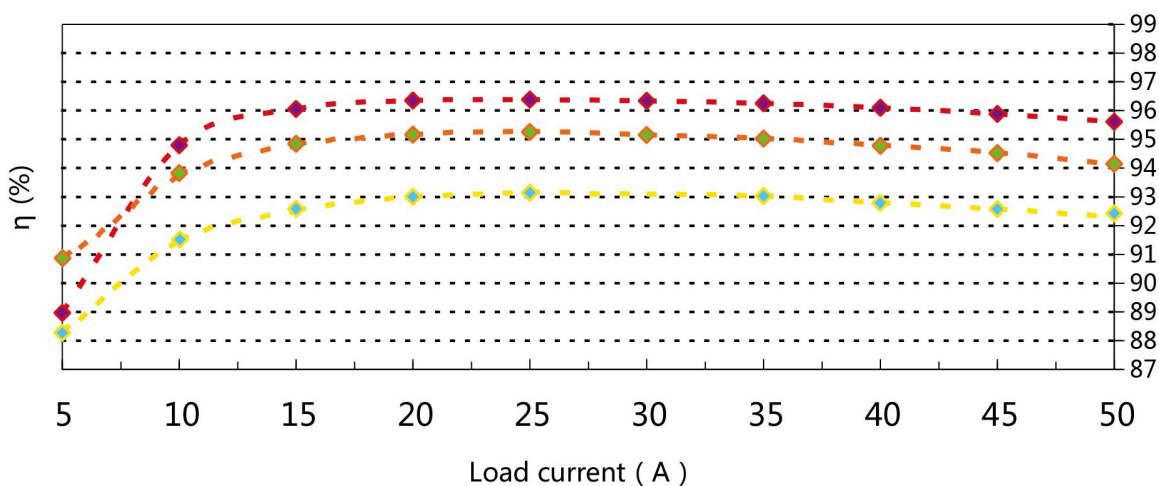
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|-------------|-------------------------------------|
| Safety | IEC 60950-1 |
| EMC | EN 61000-6 |
| Environment | ETSI EN 300 019-2 RoHS compliant |



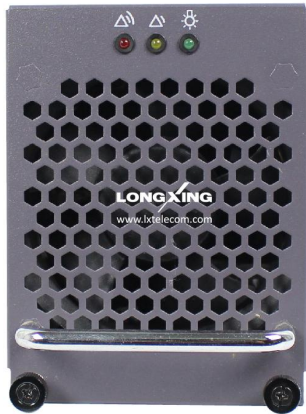
Other Specifications

| | |
|----------------|--|
| 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)*113mm(H) |
| Plastic panel | 106mm(W)*242mm(D)*84mm(H) |
| Weight | 2.4kg |

3000S : - - ◆ - - η @ /220Vac
 3000M : - - ◆ - - η @ /220Vac
 3000H : - - ◆ - - η @ /220Vac



Part Details for Iron panel



Part Details for Plastic panel



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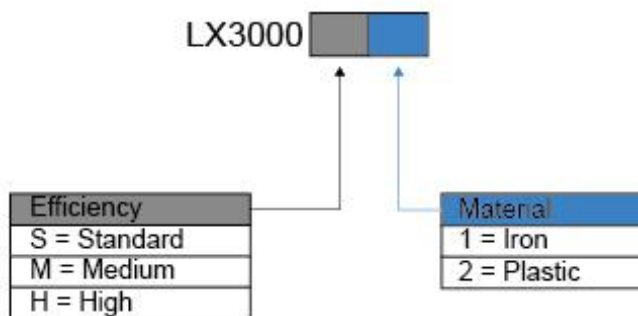
+86 574 87908188

Ver: 090317

LONGXING

Structured Cabling Solutions

Catalog Number



Ordering Example:

LX3000M2; Medium efficiency, Plastic 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 |
| 3000U-H | ≥96.0% | Iron | 1U |

