

LDE10/15/20 SERIES**GUIDE RAIL AC-DC MODULAR POWER SUPPLY 10-20W****product features**

- Wide voltage input range: 85-264VAC (100-370VDC)
- Working temperature -40°C ~ +70°C
- Full protection features (including self-recovery for short circuit protection)
- High efficiency and high reliability
- Guide rail installation
- Industrial-grade product technical design

APPLIED RANGE

Power systems such as wireless networks, telecommunications/data communications, power systems, industrial control systems, measurement instruments, and intelligent fields. Suitable for designs requiring wide input range fluctuations, power isolation, and limited board space, while enabling modular product functionality to enhance reliability.

PRODUCT MODEL

model	output voltage Vo	output Io	productiveness (TYP)
LDE10-20B05DG	5V	2000mA	78%
LDE10-20B12DG	12V	833mA	80%
LDE10-20B15DG	15V	666mA	81%
LDE10-20B24DG	24V	416mA	82%
LDE15-20B05DG	5V	3000mA	80%
LDE15-20B12DG	12V	1250mA	85%
LDE15-20B15DG	15V	1000mA	85%
LDE15-20B24DG	24V	625mA	86%
LDE20-20B05DG	5V	4000mA	81%
LDE20-20B12DG	12V	1666mA	85%
LDE20-20B15DG	15V	1333mA	85%
LDE20-20B24DG	24V	833mA	86%

*FOR OTHER SPECIFICATIONS OR MODELS, PLEASE CONTACT US DIRECTLY.

INPUT CHARACTERISTICS

AC/DC Rail Power Supply10-20W

励至 LZTEC

input voltage range	85 ~ 264VAC (100 ~ 370VDC)
incoming frequency	47 ~ 63Hz
input currenton	125mA (TYP) @115VAc 80mA (TYP)@ 230VAc
External fuse (recommended value)	1A/250V slow cut

OUTPUT CHARACTERISTIC

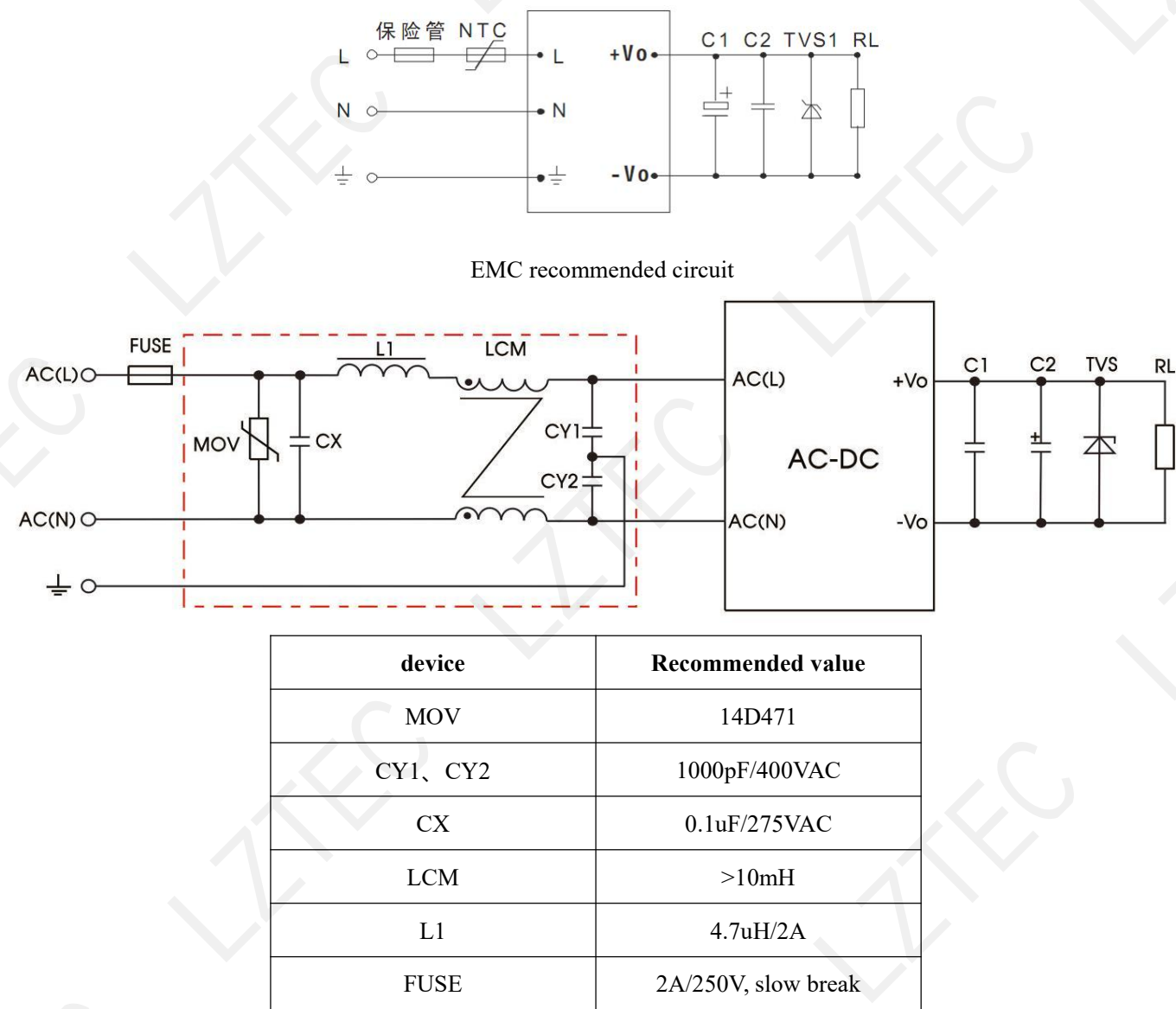
Output voltage regulation accuracy	±2%
Source effect	±0.5% (typ)
Load adjustment rate (10%~100%)	±1% (typ)
Minimum load	10%
Output ripple + noise (peak-to-peak)	100mV(typ) (20MHz Bandwidth)
short-circuit protection	Can be short-circuited for a long time and self-recover
Overvoltage protection output	≥1.1 times

GENERAL CHARACTERISTIC

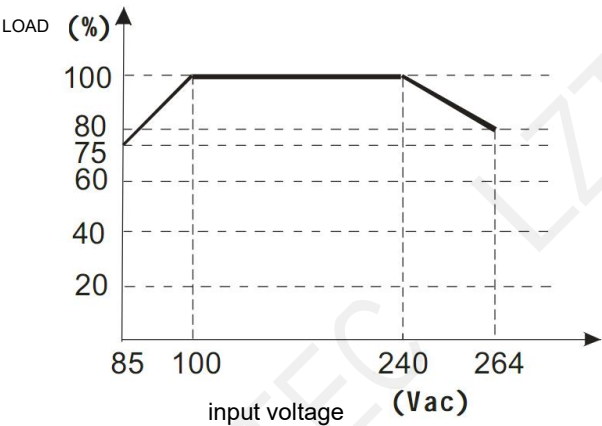
temperature characteristic	working temperature Power Degradation Storage temperature case temperature	-40°C ~ +70°C 3.75% / °C ,
Battery life		40ms(typ)/ at Vin:320Vdc
humidity		85%RH(max)
Warm		0.02%/°C
switching frequency		65kHz(typ)
Isolation voltage	Input--Output	3000Vac/1Min
leakage current		<5mA RMS typ. 230VAC/50Hz
Electromagnetic compatibility and electrostatic discharge	IEC/EN 61000-4-2 level 3 6kV/8kV	
* RF radiation immunity	IEC/EN 61000-4-3	
*Fast transient pulse group	IEC/EN 61000-4-4 level 3 2 kV	
* surge	IEC/EN 61000-4-5 level 3 1kV/2kV	
*Conduction/Radiation		EN55022, level B
security classification		CLASS II
Outer shell grade		Flame-retardant plastic UL94V-0
install		Guide
MTBF		>200,000h @25°C

- Note: 1. For *marked test items, the peripheral EMC recommended circuitry must be added.
2. Unless otherwise specified, all data above were obtained under conditions of TA=25°C and humidity <75%.

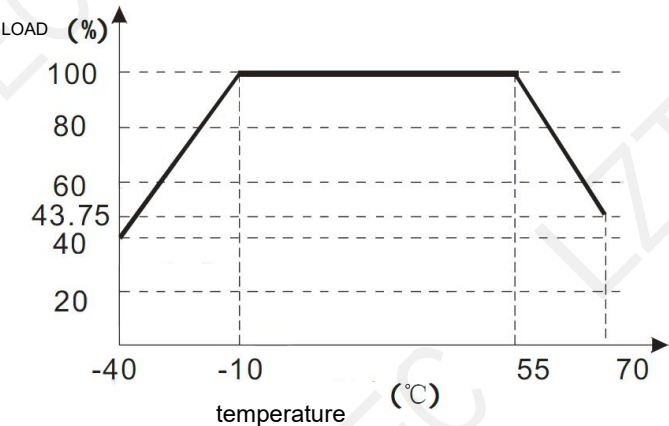
Typical Application



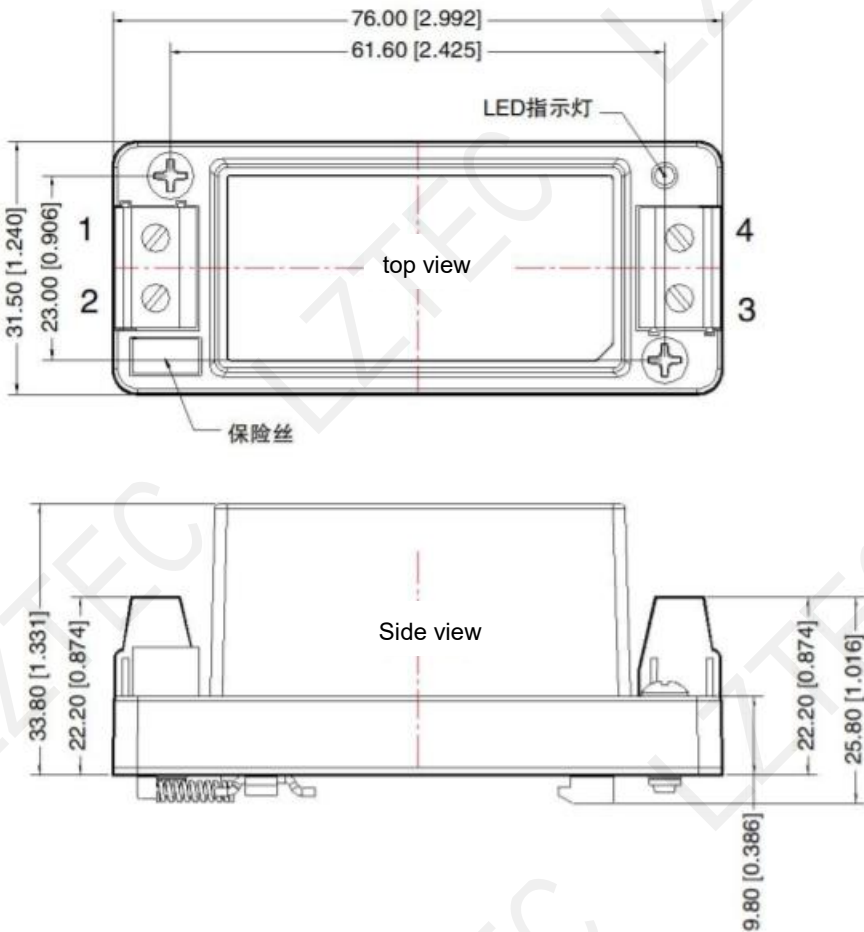
INPUT VOLTAGE VERSUS LOAD DIAGRAM



TEMPERATURE VS. LOAD



APPEARANCE AND SIZE



PIN	1	2	3	4
definition	AC(N)	AC(L)	-Vo	+Vo

E-mail:sales@lyztec.com