Small Cell Power Series
Outdoor Rectifier KLTE-413
13 A 54 Vdc 220 Vac

Outdoor Rectifier for 4G and LTE mobile networks.

FEATURES

High efficiency
Efficiency up to 90%

Wide input voltage range
176 - 264 Vac 1ph

High operating temperature range
Operating -30° to +50° C
Reliable convection cooling

Standards
UL, CE, NEBS Level 3

Optional - Outdoor Battery Cabinet
IP55 enclosure
Wall mount
Pull out battery racks
Battery breaker 20A
Lock and key security

keatecenergy.com
sales@keatecenergy.com
## SPECIFICATIONS

### General Specifications

- **MTBF**: 150,000 hours
- **Operating temp**: -30° to +50° C
- **Storage temp**: -40° to +85° C
- **Humidity**: 10 - 90% non-condensing
- **Cooling**: Convection cooling
- **Environment**: NEBS Level 3
- **Altitude**: 3,000 m
- **H x W x L**: 150 x 280 x 110 mm
- **Weight**: 5 kg
- **Communication**: High signal indicates DC is within regulation
- **Interface**: RS485, TCP/IP
- **Standards**:
  - **Electrical safety**: IEC 60950-1, UL 60950-1
  - **EMC**:
    - EN 55022 Class A (conducted)
    - IEC 61000-4-2 (electrostatic discharge)
    - IEC 61000-4-3 (radiated immunity)
    - IEC 61000-4-4 (fast transients)
    - IEC 61000-4-5 (surge immunity)
    - IEC 61000-4-6 (conducted immunity)
    - IEC 61000-4-10 (voltage dips)
    - IEC 61000-4-11 (voltage interruptions)
    - IEC 61000-3-3 (fluctuations & flicker)
  - **Harmonics**: EN 61000-3-2 Class D
  - **Certification**: UL, CE LVD CB
- **Optional - Battery Cabinet**:
  - **Environment**: IP55
  - **Shelf**: Pull out shelf (2)
  - **Configuraton**: 4 x 12V 12Ah batteries
  - **Battery breaker**: 20A
  - **Security**: Lock and key
  - **H x W x L**: 370 x 260 x 220 mm
  - **Weight**: 25 kg with batteries

### AC Input

- **Nominal**: 220 Vac 1ph
- **Range**: 176 - 264 Vac
- **Frequency**: 47 - 63 Hz
- **Inrush**: 20 A at nominal input (max cold start)
- **Current**: 4 A at nominal input (max continuous)
- **Efficiency**: 3.5 mA at 264 Vac
- **Input protection**: Double pole 10 A fuse / 250 Vac

### DC Output

- **Nominal voltage**: 53.3 Vdc
- **Adjustment range**: 40.0 - 58.0 Vdc
- **Output current**: 13 A max
- **Line regulation**: ± 0.5% Max over entire input range
- **Load regulation**: ± 0.5% Max
- **Temperature regulation**: ± 0.5% Max
- **Ripple and noise**: ≤ 250 mv, p-p, (10 Hz - 14 MHz)
- **Over current**: 105 - 130%
- **Output projection**: Overvoltage ≤ 59 Vdc (recycle input to reset) thermal shutdown battery temperature compensation

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