

Single Phase Universal AC Input Power Supply & Battery Charger

KOLT

Part Number & Ordering Information*

| Family | Input Voltage | Power | Output Voltage | Package | Baseplate |
|--------|--|------------------------------|--|--------------|-----------------------------|
| KMBC02 | AC1UNV: Single Phase Universal 90-265 VAC | P2K5: 2.5 kW P3K5: 3.5 kW | DC12: 12 VDC DC15: 15 VDC DC28: 28 VDC DC36: 36 VDC DC48: 48 VDC DC270: 270 VDC | EN: Enclosed | H: 300 Vac continuous input |

* Full part numbering and options are available in the data sheet. "-" sign shall be placed in between all fields.

Features & Benefits

- 19"/2 form factor, 2U height
- 90-265 VAC input, optional 300 VAC continuous
- Input Frequency: 47-63 Hz
- Can be configured by the end user as a power supply & battery charger
- High efficiency, high power density
- Power Factor Correction
- IP67 sealed
- RS-485 communication
- Input UV/OV protection
- Output OV Protection
- Output short circuit protection
- Over temperature protection
- Charger for Lead-Acid and Li-Ion Batteries
- Droop & Active Current Sharing
- Internal Oring Diode
- Can be used in as N+1 redundant system

Product Description

KMBC02 is a high efficiency and rugged multifunction AC/DC converter unit that can be operated as a power supply unit and a battery charger. It is designed to guarantee high performance in both modes under extreme environmental conditions. It has superior protection features against external faults and disturbances while meeting the major military standards. KOLT's innovative engineering has enabled a compact design of the converter with high power density and performance.

Designed to Meet

- MIL-STD-461 (D, E, F, G)
- MIL-STD-810



Size: 480 x 220 x 88 mm
(19"/2 form factor, 2U height)

Weight: 13 kg

Absolute Maximum Ratings

The absolute maximum ratings below are stress ratings only. Operation at or beyond these maximum ratings may cause permanent to the device.

| Parameter | Value |
|-----------------------|----------------|
| Operating Temperature | -55 to +100 °C |
| Storage Temperature | -55 to +125 °C |

Screening

- Full LOT traceability
- Burn-in at 100 °C baseplate temperature
- Temperature cycling per MIL-STD-883
- Available with different screening grades
- IPC-610, Class III Inspection
- Final visual inspection per MIL-STD-883