

IEC-320-C14 AC Inlet IEC-320-C8 AC Inlet IEC-320-C6 AC Inlet



Size: 3.86in x 1.77in x 1.22in (98mm x 45mm x 31mm)

FEATURES

- Wide Input Voltage Range of 100~240VAC
- RoHS Compliance
- Optional CEC Compliance
- Over Voltage and Short Circuit Protection
- UL/cUL, CB, CE, FCC, and CCC Safety Approvals

DESCRIPTION

The DTEA1030 series of AC/DC desktop power supplies offers up to 36 watts of output power in a 3.86" x 1.77" x 1.22" package. This series consists of single output models with a wide input voltage range of 100~240VAC. Each model in this series has RoHS compliance and optional CEC compliance as well as over voltage and short circuit protection. IEC-320-C14, IEC-320-C8, or IEC-320-C6 AC inlets are available. This series has UL/cUL, CB, CE, FCC and CCC safety approvals.

MODEL SELECTION TABLE

| Model Number ⁽¹⁾ | Input Voltage Range | Output Voltage | Output Current | | Ripple & Noise | Output Power | Min. Efficiency |
|-----------------------------|---------------------|----------------|----------------|----------|----------------|--------------|-----------------|
| | | | Min Load | Max Load | | | |
| DTEA1020Ay | 100~240 | 5~8V | 0A | 4A | 160mV | 20W | 77% |
| DTEA1020y | | 9~12V | 0A | 2A | 250mV | 20W | 77% |
| DTEA1020Cy | | 13~20V | 0A | 1.54A | 300mV | 20W | 77% |
| DTEA1020Dy | | 21~35V | 0A | 0.95A | 520mV | 20W | 77% |
| DTEA1030Ay | | 5~8V | 0A | 3.5A | 160mV | 25W | 80% |
| DTEA1030y | | 9~12V | 0A | 3A | 250mV | 30W | 80% |
| DTEA1030Cy | | 13~20V | 0A | 2.3A | 300mV | 30W | 80% |
| DTEA1030Dy | | 21~35V | 0A | 1.42A | 520mV | 30W | 80% |
| DTEA1036y | | 12V | 0A | 3A | 250mV | 36W | 82% |
| DTEA1036Dy | | 21~35V | 0A | 1.5A | 520mV | 36W | 82% |

SPECIFICATIONS

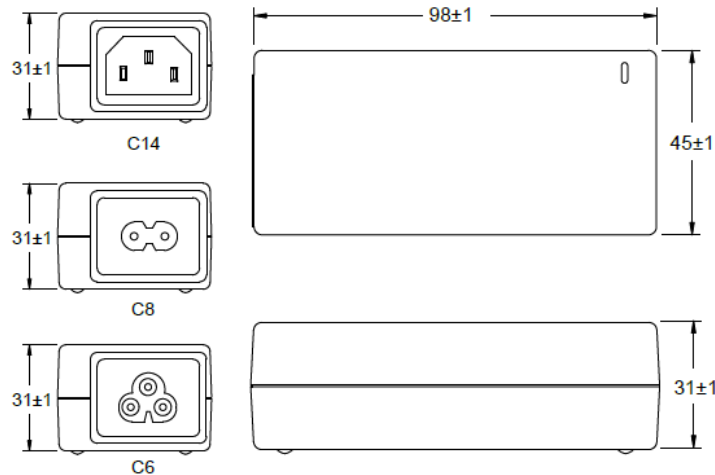
All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.
We reserve the right to change specifications based on technological advances.

| SPECIFICATION | TEST CONDITIONS | Min | Typ | Max | Unit |
|-------------------------------------|-----------------|---|------|-----|-------|
| INPUT SPECIFICATIONS | | | | | |
| Input Voltage Range | | 100 | | 240 | VAC |
| Input Frequency | | 50 | | 60 | Hz |
| Input Current | | | ≤1.0 | | A |
| Inrush Current | At Cold Start | | ≤60 | | A |
| OUTPUT SPECIFICATIONS | | | | | |
| Output Voltage | | See Table | | | |
| Line Regulation ⁽²⁾ | | | ±1 | | % |
| Load Regulation | | | ±5 | | % |
| Output Power | | See Table | | | |
| Output Current | | See Table | | | |
| Minimum Load | | 0 | | | A |
| Ripple & Noise ⁽³⁾ | | See Table | | | |
| Hold Up Time | | | ≥8.3 | | mS |
| Turn On Time | | | ≤3 | | S |
| PROTECTION | | | | | |
| Short Circuit Protection | | Automatic Recovery | | | |
| Over Voltage Protection | | Automatic Recovery | | | |
| ENVIRONMENTAL SPECIFICATIONS | | | | | |
| Operating Temperature | | 0 | | 40 | °C |
| Storage Temperature | | -20 | | 85 | °C |
| Storage Humidity | | 5 | | 95 | % |
| MTBF | | 30,000 | | | Hours |
| GENERAL SPECIFICATIONS | | | | | |
| Efficiency | | See Table | | | |
| PHYSICAL SPECIFICATIONS | | | | | |
| Weight | | 7.76oz (220g) | | | |
| Dimensions (L x W x H) | | 3.86in x 1.77in x 1.22in (98mm x 45mm x 31mm) | | | |
| AC Inlet | | C14, C8, C6 | | | |
| SAFETY CHARACTERISTICS | | | | | |
| Safety Approvals | | UL/cUL ⁽⁴⁾ , CB, CE, FCC, CCC | | | |

NOTES

1. "Y" in model name indicates AC Inlet type. "Y" can be "1" for IEC-320-C14, "2" for IEC-320-C8, or "3" for IEC-320-C6.
2. Line regulation is defined by changing $\pm 10\%$ of input voltage from nominal line at rated load.
3. Ripple & Noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.1uF ceramic capacitor & parallel with 47uF aluminum capacitor at full load and nominal line.
4. This product is Listed to applicable standards and requirements by UL.

**Due to advances in technology, specifications subject to change without notice.*

MECHANICAL DRAWINGS

- Case Size: 98L x 45W x 31H (mm)
- AC Inlet: C14, C8, C6
- Weight: 220g

COMPANY INFORMATION

Wall Industries, Inc. has created custom and modified units for over 50 years. Our in-house research and development engineers will provide a solution that exceeds your performance requirements on-time and on budget. Our ISO9001: 2015 certification is just one example of our commitment to producing a high quality, well-documented product for our customers.

Our past projects demonstrate our commitment to you, our customer. Wall Industries, Inc. has a reputation for working closely with its customers to ensure each solution meets or exceeds form, fit and function requirements. We will continue to provide ongoing support for your project above and beyond the design and production phases. Give us a call today to discuss your future projects.

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