

**ELECTRICAL DOUBLE LAYER ENERGY STORAGE CAPACITORS****220 EDLC ENYCAP™****Electrical Double Layer Energy Storage Capacitors
Power and Energy Versions****KEY BENEFITS**

- Polarized energy storage capacitor with high capacity and high energy density
- Rated voltage: 2.7 V
- Rapid charge and discharge
- Available in through-hole (radial) version
- RoHS-compliant

APPLICATIONS

- Power backup
- Burst power support
- Storage device for energy harvesting
- Micro UPS power source
- Energy recovery

RESOURCES

- Datasheet: 220 EDLC - <http://www.vishay.com/doc?28421>
- For technical questions contact hybridstorage@vishay.com
- Material categorization: For definitions of compliance please see <http://www.vishay.com/doc?99912>

**RoHS
COMPLIANT****A WORLD OF
SOLUTIONS**

Electrical Double Layer Energy Storage Capacitors Power and Energy Versions

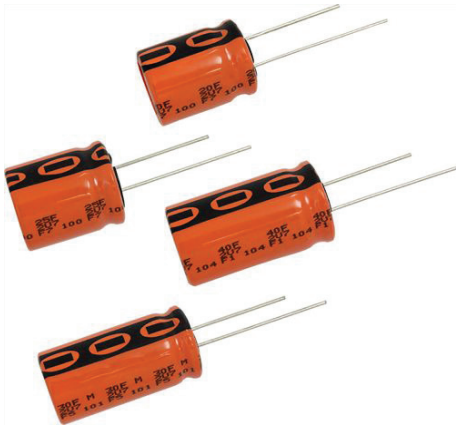


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FEATURES

- Polarized energy storage capacitor with high capacity and energy density
- Energy version with high stability available
- Rated voltage: 2.7 V
- Available in through-hole (radial) version
- Useful life: 1000 h at 85 °C
- Rapid charge and discharge
- Maintenance-free, no service necessary
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912


RoHS
COMPLIANT

APPLICATIONS

- Power backup
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MARKING

The capacitors are marked (where possible) with the following information:

- Rated capacitance (in F)
- Rated voltage (in V)
- Date code, in accordance with IEC 60062
- Code indicating factory of origin
- Logo of manufacturer
- Negative terminal identification
- Series number (220)

PACKAGING

Supplied in ESD trays.

QUICK REFERENCE DATA

| DESCRIPTION | VALUE |
|---|--|
| Nominal case sizes (Ø D x L in mm) | 16 x 20; 18 x 20; 16 x 25, 18 x 25; 16 x 31; 18 x 31 , 18 x 35, 18 x 40 |
| Rated capacitance range, C _R | 15 F to 60 F |
| Rated voltage, U _R (65 °C / 85 °C) | 2.7 V / 2.3 V |
| Category temperature range | -40 °C to +85 °C |
| Endurance test at 85 °C | 1000 h |
| Useful life at 85 °C | 1000 h |
| Useful life at 20 °C | > 10 years |
| Shelf life at 20 °C | 2 years |
| Cycle life | > 500 000 cycles |

SELECTION CHART FOR C_R, U_R, AND RELEVANT NOMINAL CASE SIZES (Ø D x L in mm)

| C _R (F) | U _R (V) = 2.7 V |
|--------------------|--|
| 15 | 16 x 20 |
| 20 | 16 x 20; 16 x 25; 18 x 20 |
| 25 | 16 x 25; 18 x 20; 18 x 25 |
| 30 | 16 x 31; 18 x 25 |
| 35 | 16 x 31, 18 x 31 ⁽¹⁾ |
| 40 | 18 x 31 ⁽¹⁾ |
| 45 | 18 x 35 |
| 50 | 18 x 35 |
| 55 | 18 x 40 |
| 60 | 18 x 40 |

Note

⁽¹⁾ Preferred case size.

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