

## Ultra Capacitor Modules

Traditional lead-acid batteries rely on aging technology and toxic chemicals for energy storage. While adequate for many applications, they have limitations for emerging applications that require safe, dependable, quick-back up power, over long periods of time. Ultracapacitors in DC-UPS applications, ensure that critical information and functions are available when supply voltage dips, sags, drops out or surges, or during a battery changeover. Working in conjunction with a complementary power supply, Ultracapacitors modules reliably supply energy in peak power demand conditions, short power outages and reducing stress on the primary power supply and extending its usable life.

Benefits:

- Environmentally safe
- Virtually maintenance free
- Operating temperature range -40°C to +65°C
- Higher power vs. batteries
- No toxic chemicals
- Lasts up to 15 years\*\*
- Higher energy vs. electrolytic capacitors
- Resists shock and vibration



### C-TEC Ultra capacitor module

The DC- buffer module of the series C-TEC works with ultra-capacitors as energy storage inside the housing. These capacitors are charge by a external regulated DC-power supply in normal operation. In case of an interruption of the DC-power supply the energy of the capacitors is released. The load is supplied by the buffer module till it is discharged. The back-up time depends on the state of charge of the capacitors and on the discharge current.

| Cat. No.      | prim.<br>V | sec.<br>V | output<br>A | imax*<br>A | energy<br>Ws | dimensions<br>h x w x d (mm) | weight<br>kg |
|---------------|------------|-----------|-------------|------------|--------------|------------------------------|--------------|
| C-TEC 2403-1  | 24         | 24        | 3           | 6          | 1000         | 92,5x60x116                  | 0.55         |
| C-TEC 2405-5  | 24/12      | 24/12     | 5           | 7          | 5000         | 163x114x145                  | 1.8          |
| C-TEC 2410-10 | 24/12      | 24/12     | 10          | 10         | 10000        | 163x114x145                  | 2.1          |
| C-TEC 2420-8  | 24         | 24        | 20          | 20         | 8000         | 192x84x192                   | 1.8          |
| C-TEC 2440-4P | 24         | 24        | 40          | 40         | 4000         | 192x84x198                   | 2.0          |

|               |                   |    |    |        |      |                   |      |
|---------------|-------------------|----|----|--------|------|-------------------|------|
| AC-TEC 2403-1 | 115 – 230 VAC     | 24 | 3  | 1.5xIA | 1000 | 152,5 x 72 x 130  | 0.85 |
| AC-TEC 2420-8 | 3 x 340 – 550 VAC | 24 | 20 | 1.5xIA | 8000 | 192,5 x 140 x 198 | 0.55 |



### Capacitor Extension Module

The CEM-Module is used to increase the back-up energy of the C-TEC series. The charging and discharging of the extension module is monitored and controlled by the C-TEC.

| Cat. No. | nominal voltage<br>V DC | sec.<br>V DC | output<br>A | imax*<br>A | energy<br>Ws  | dimensions<br>h x w x d (mm) | weight<br>kg |
|----------|-------------------------|--------------|-------------|------------|---------------|------------------------------|--------------|
| CEM 1    | 24                      | 24           | 3           | 3          | 1kJ, 1000Ws   | 92,5x60x116                  | 0.85         |
| CEM 2    | 24                      | 24           | 3           | 3          | 2kJ, 2000Ws   | 92,5x60x116                  | 1            |
| CEM 8    | 24                      | 24           | 20          | 20         | 8kJ, 8000Ws   | 192x84x192                   | 1.4          |
| CEM 16   | 24                      | 24           | 20          | 20         | 16kJ, 16000Ws | 192x84x192                   | 1.9          |



### AKKUTEC DC-UPS Buffer Unit (without batteries)

The battery buffered DC power supply is working according the stand-by parallel mode and ensures in connection with a lead-acid battery a safe continuous DC power supply during a determined time interval in case of mains failure. The total output current is shared between supply of the loads and charging of the buffer unit.

| Cat. No.     | prim.<br>V | sec.<br>V | output<br>A | dimensions<br>h x w x d (mm) | weight<br>kg |
|--------------|------------|-----------|-------------|------------------------------|--------------|
| AKKUTEC 2402 | 115 - 230  | 24        | 2           | 60x92,5x116                  | 0.55         |
| AKKUTEC 2405 | 115-230    | 24        | 5           | 160x75x150                   | 1            |
| AKKUTEC 2412 | 230        | 24        | 12          | 155x95x183                   | 0.4          |
| AKKUTEC 2440 | 3x400      | 24        | 44          | 180x290x150                  | 3.3          |

PSC Class 2 Series  
Compact Housing

PSA Flex Series  
1 Phase

PSB Flex Series  
2 & 3 Phase

PS-S Slim Series  
Plastic Housing

PS Low Profile Series  
Plastic Housing

PS Industrial Series  
1, 2 & 3 Phase

PS C & W Series  
1 and 2 Phase

CBI Type  
DC UPS Systems

CB Type  
Battery Chargers

Accessories

Appendix

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Altech:](#)

[AKKUTEC2440](#) [C-TEC2405-5](#) [C-TEC2410-10](#) [AKKUTEC2405](#) [AKKUTEC2402](#) [CEM16](#) [C-TEC2403-1](#) [CEM1](#)  
[CEM8](#) [CEM2](#) [C-TEC2420-8](#)