

# Low Inductance DC Link Capacitors

## General technical parameters

|                                |   |
|--------------------------------|---|
| Rated voltage                  | 600 V - 2000 V DC                       |
| Rated capacitance              | 10 μF – 500 μF                          |
| Capacitance tolerance          | ±10 %                                   |
| Voltage test between terminals | 1,5 x U <sub>N</sub> DC/10 s            |
| Mounting position              | Any                                     |
| Case temperature               | -40/85 °C                               |
| Storage temperature            | -40/85 °C                               |
| Hot spot                       | max 85 °C                               |
| Lifetime expectancy            | 100 000 h                               |
| FIT                            | 50                                      |
| Case                           | Plastic - PA                            |
| Terminal                       | M8 – bolt terminal<br>F8 – inner thread |

HC – low self-inductance design, grinded bottom  
Additional cooling with mounting at bottom on heatsink is necessary for max current load.



## Standard types

(other parameters on request)

### U<sub>N</sub> = 600 V DC

| C <sub>N</sub> (μF) | Type                      | U <sub>r</sub> (V) | I (A) | Î (kA) | I <sub>s</sub> (kA) | R <sub>s</sub> (mΩ) | R <sub>TH</sub> (K/W) | L <sub>s</sub> (nH) | D x H (mm) | m (kg) |
|---------------------|---------------------------|--------------------|-------|---------|---------------------|---------------------|-----------------------|---------------------|------------|--------|
| 300                 | PVDJP 311 - 0,6/300-M8-HC | 100                | 100   | 3,5     | 9,8                 | 0,8                 | 8,0                   | 20                  | 85 x 51    | 0,4    |
| 400                 | PVDJP 312 - 0,6/400-M8-HC | 100                | 100   | 3,7     | 10,4                | 1,0                 | 7,2                   | 20                  | 85 x 64    | 0,5    |
| 450                 | PVDJP 313 - 0,6/450-M8    | 100                | 80    | 3,8     | 10,6                | 1,3                 | 5,6                   | 35                  | 85 x 76    | 0,6    |

### U<sub>N</sub> = 900 V DC

| C <sub>N</sub> (μF) | Type                      | U <sub>r</sub> (V) | I (A) | Î (kA) | I <sub>s</sub> (kA) | R <sub>s</sub> (mΩ) | R <sub>TH</sub> (K/W) | L <sub>s</sub> (nH) | D x H (mm) | m (kg) |
|---------------------|---------------------------|--------------------|-------|---------|---------------------|---------------------|-----------------------|---------------------|------------|--------|
| 70                  | PVDJP 311 - 0,9/70-M8-HC  | 200                | 100   | 1,4     | 4,1                 | 1,2                 | 8,0                   | 20                  | 85 x 51    | 0,4    |
| 120                 | PVDJP 311 - 0,9/120-M8    | 150                | 60    | 2,2     | 6,4                 | 0,8                 | 8,0                   | 30                  | 85 x 51    | 0,4    |
| 150                 | PVDJP 311 - 0,9/150-M8-HC | 200                | 100   | 3,5     | 10,5                | 0,8                 | 8,0                   | 20                  | 85 x 51    | 0,4    |
| 200                 | PVDJP 312 - 0,9/200-M8    | 150                | 60    | 2,1     | 6,3                 | 1,1                 | 7,2                   | 30                  | 85 x 64    | 0,5    |
| 250                 | PVDJP 313 - 0,9/250-M8    | 150                | 80    | 2,2     | 6,6                 | 1,3                 | 5,6                   | 35                  | 85 x 76    | 0,6    |

### U<sub>N</sub> = 1100 V DC

| C <sub>N</sub> (μF) | Type                      | U <sub>r</sub> (V) | I (A) | Î (kA) | I <sub>s</sub> (kA) | R <sub>s</sub> (mΩ) | R <sub>TH</sub> (K/W) | L <sub>s</sub> (nH) | D x H (mm) | m (kg) |
|---------------------|---------------------------|--------------------|-------|---------|---------------------|---------------------|-----------------------|---------------------|------------|--------|
| 70                  | PVDJP 311 - 1,1/70-M8     | 200                | 42    | 1,4     | 4,1                 | 1,2                 | 8,0                   | 30                  | 85 x 51    | 0,4    |
| 100                 | PVDJP 311 - 1,1/100-M8    | 200                | 60    | 2,0     | 5,8                 | 0,9                 | 8,0                   | 30                  | 85 x 51    | 0,4    |
| 100                 | PVDJP 311 - 1,1/100-M8-HC | 200                | 100   | 2,0     | 6,0                 | 0,9                 | 8,0                   | 20                  | 85 x 51    | 0,4    |
| 140                 | PVDJP 312 - 1,1/140-M8    | 200                | 60    | 2,0     | 5,8                 | 1,1                 | 7,2                   | 35                  | 85 x 64    | 0,5    |
| 140                 | PVDJP 312 - 1,1/140-F8    | 200                | 60    | 2,0     | 5,8                 | 1,1                 | 7,2                   | 35                  | 85 x 64    | 0,5    |

### U<sub>N</sub> = 1300 V DC

| C <sub>N</sub> (μF) | Type                   | U <sub>r</sub> (V) | I (A) | Î (kA) | I <sub>s</sub> (kA) | R <sub>s</sub> (mΩ) | R <sub>TH</sub> (K/W) | L <sub>s</sub> (nH) | D x H (mm) | m (kg) |
|---------------------|------------------------|--------------------|-------|---------|---------------------|---------------------|-----------------------|---------------------|------------|--------|
| 50                  | PVDJP 311 - 1,3/50-M8  | 250                | 70    | 1,5     | 4,5                 | 1,1                 | 8,0                   | 30                  | 85 x 51    | 0,4    |
| 70                  | PVDJP 312 - 1,3/70-M8  | 250                | 70    | 1,5     | 4,5                 | 1,3                 | 7,2                   | 30                  | 85 x 64    | 0,5    |
| 100                 | PVDJP 312 - 1,3/100-M8 | 250                | 45    | 1,7     | 5,1                 | 1,3                 | 7,2                   | 30                  | 85 x 64    | 0,5    |
| 130                 | PVDJP 313 - 1,3/130-M8 | 250                | 45    | 1,9     | 5,5                 | 1,7                 | 5,6                   | 35                  | 85 x 76    | 0,6    |

