BUFFER MODULE, 24 V DC WITH SUPER CAPACITORS, EDLC

UC10.241
DC UPS 24V dc I/P 24V dc 15A O/P 6kWs



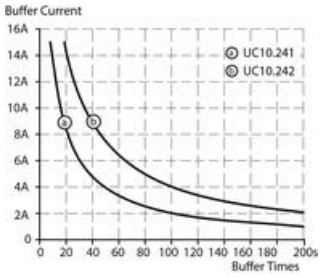
- Load current 15 A
- 6 kWs to 12 kWs
- Long buffer times
- Maintenance
- Long life

PRODUCT DESCRIPTION

The buffer module is connected via 24 V dc unit. The capacitor bank consists of so-called supercapacitors EDLC (Electrochemical Double Layer Capacitors), which has a very large storage capacity compared with the electrolyte. Pulse novel buffer module is an active circuit which ensures that the capacitors will not be charged with high voltage which gives a very long life.
It requires no maintenance as compared to a DC UPS where the batteries must be replaced at regular intervals. The temperature range of -40 to +60°C with the longevity do Buffer modules are suitable in a variety of applications, especially suitable where service and maintenance is costly. If 24 V dc voltage is lost or temporarily falls below 22.5 V dc buffer connected device automatically and bridge the shortfall without any temporary dips. Data can be saved and machines can be shut down in a safe and controlled manner. As soon as the 24 V dc power is restored starting capacitors to charge. The tension is constant 22.25 V dc during the entire buffer period, the voltage drops are not at the end of discharge, thus ensuring that the connected loads do not fall off.
Relay outputs provide signals on the following status:
Ready: The relay closes when the capacitors are fully charged, the input voltage is 24 V dc level.
Buffering: The relay closes when the capacitors are discharged, voltage interruption.
In addition there is an input, **Inhibit** enabling shutdown of the buffer function using a 24 V dc signal.

BUFFER TIMES

Buffering
A=UC10.241 6kWs. B=UC10.242 12 kWs



Load current	UC10.241 6kWs	UC10.242 12 kWs
0.5 A	340 s	680 s
1 A	200 s	400 s
3 A	68 s	136 s
5 A	39 s	78 s
7 A	26 s	53 s
10 A	16.5 s	33 s
15 A	9 s	18 s

SPECIFICATIONS

Approvals	CB, CE, CSA, CSA US, EX, IECEx, UL
Charging The Battery Type	1.1
Depth	117
Efficiency	97.8
Height	124
Input Current During Charging Of Aggregates	1.3
Input voltage for battery connection	22.8
Input Voltage From The Unit	24
IP Class	IP20
Life span	96 000 h @ 15 A, 40 °C, 75%
MTBF (IEC 61709)	854 000 h @ 15 A, 40 °C
Output current at 24 V dc	15

Output Current During Normal Operation Via The Unit Max	15
Output Current In Buffer Mode Max	15
Output Voltage At Buffering	22.45
Output Voltage Normal Operation	24
Ripple. max	30
Temperature Range Without Derating From	-40
Temperature Range Without Derating To	60
Voltage Level Of Activation Of The Buffer Module	22.45
Weight	1.15
Width	126

