

## Backup power supplies in the cover

# 75PS13V8 K40/5A

# 1PS13V8 K40/10A

Backup power supplies 75PS13V8 K40/5A and 1PS13V8 K40/10A are designed to power device that require a continuous supply of direct current voltage 13,8 Vdc, respectively 12 Vdc.

They are designed for connection of backup accumulator with a capacity from 17 Ah to 40 Ah. The accumulator is connected permanently to the power supplies. Is maintained fully charged with charger circuit and there is no danger of accumulator overcharging.

Also the circuit ZOM.01 ensures compliance with the set charging current.

The power supply is placed in a metal cover with ventilation holes, it is equipped with a mechanical lock and two tamper contacts. One indicates a opening of the cover and second a removing of the power supply (mechanical cover) from assembly place.

- > **Cover with space for accumulator up to 40 Ah**
- > **Accumulator protection against deep discharge**
- > **Optional accumulator charging rate, depending on the set charging current**
- > **Check accumulator voltage every 1 second**
- > **Visual indication of the state - 4 LED diodes**
- > **Signaling unconnected accumulator when connected network 230 V/50Hz**
- > **Lockable cover with protection contact of opening the cover**
- > **Protection contact with indication of removing from assembly place**
- > **Electronic overload protection**
- > **Adjustable charging current value**
- > **High efficiency according to applied switched supplies**
- > **Compact design for wall assembly**



75PS13V8 K40/5A



1PS13V8 K40/10A

Type	75PS13V8 K40/5A	1PS13V8 K40/10A
Input supply voltage	195 - 255 Vac / 47 - 63 Hz	
Output voltage	13,8 Vdc < 2 %	13,8 Vdc < 1 %
Output voltage waving	< 20 mV	< 60 mV
Maximum output current of supply	5 A	10 A
Maximum charging current to accumulator (adjustable)	1A, 2A, 3A, 4A	1A, 2A, 3A, 4A, 5A, 6A, 7A, 8A
Signal relay for network outage 230V/50Hz	Contact type NC 1 A / 12 Vss	
Signal relay for accumulator voltage < 10,5 V	Contact type NC 1 A / 12 Vss	
Maximum input	81 W	163 W
Working temperature	-15° up to +40° C	
Cover dimension	335 x 280 x 195 mm	
Protection	IP20	
Network fuse	T 1A/250 Vac	T 1,25A/250 Vac
Radio interference	EN 55022-B:2007/A1:2008	
Resistance to interference	STN EN 50 130-4	
Electrical safety	EN 60950-1:2005/A1:2007	

Module ZOM.01 ensures correct accumulator charging, state signalization and components protection.

Nominal output voltage from primary power supply	13,6-13,8Vdc for nominal accumulator voltage 12Vdc
Transfer resistance module ZOM.01 supply -> load	15 mΩ
Transfer resistance module ZOM.01 accumulator -> load	30 mΩ
Transfer resistance module ZOM.01 supply -> accumulator	40 mΩ
Custom collection module ZOM.01	< 30 mA
Maximum current to the load	10 A
Indicated a low level of accumulator voltage (12V)	10,5 V ± 0,1V
Disconnect backup accumulator voltage	10,1 V ± 0,2V for accumulators with nominal voltage 12V
Limit of current from accumulator at short circuit in the load	yes
Adjustable limit of charging current to accumulator	yes 1A – 8A set by step 1A
Indication of voltage loss from the primary supply	relay NC1 and LED1
Carrying capacity of output NC1 a NC2	12Vdc / 1A
Module dimension	130 x 90 x 20 mm

Supply voltage 230Vac/50Hz	Accumulator	LED 1 (green)	LED 2 (green)	LED 3 (red)	LED 4 (red)	Output NC1	Output NC2	Notice
connected	connected	on 	on 	off 	off 	closed	closed	normal operating condition
connected	not connected	on 	off 	flashing 	on 	closed	un-closed	network connected, ACU not connected, connection test every 1sec
not connected	connected and voltage $U_a > 10,5V$	off 	on 	off 	off 	unclosed	closed	network outage, ACU all right
not connected	connected and voltage $10,5V > U_a > 10V$	off 	on 	off 	on 	unclosed	un-closed	network outage, ACU is discharged under 10,5V
not connected	connected and voltage $U_a < 10V$	off 	off 	off 	off 	unclosed	un-closed	network outage, ACU is disconnected with module from the load (ACU protection against deep discharge)

Backup power supply in the cover consists of :

- power supply 75PS13V8/5A.2 respectively 1PS13V8/10A.4
- module ZOM.01
- lockable metal COVER Z40 with protection contact of opening
- back tamper contact
- wires to connect the accumulator

Accumulator not included in the delivery.

Manufacturer



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