



# Altech®

## FLEX Power Supplies

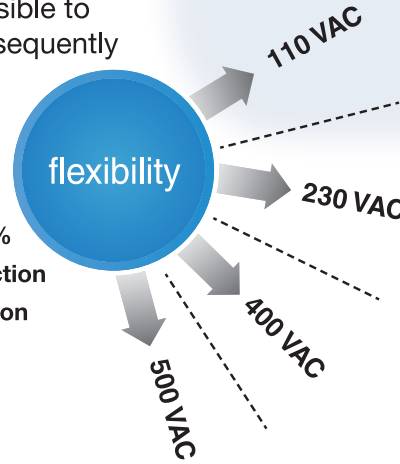
# 150% Power Boost for 3 Minutes ... *the longest time in the industry*

### More flexibility in input voltage

The FLEX line of power supplies are suitable to a wide range of input voltage. With a single type it is therefore possible to meet the requirements of more applications and consequently improve design activity and stock management.

### Benefits

- 150% Power Boost
- Available in 1, 2, and 3-phase
- Output current up to 25A
- Three overload / short circuit protection modes
- Snap-on DIN rail bracket
- Compact Housing
- High efficiency up to 92%
- Over temperature protection
- LED indicator for power on
- 3 year warranty



### More Unique Advantages

- DC OK LED
- Input power options
- Continuous output mode
- Maximum peak power time
- Manual reset mode protection
- Hiccup Mode Automatic Restart
- Easy parallel connection



### PSA series

FLEX Power Single Phase  
24V DC Power Supplies

### PSB series

FLEX Power Two and  
Three Phase  
24V DC\*\* Power Supplies

\*\*Other output voltages on request.

### Approvals

- UL508 listed for US and Canada
- IEC/EN 60950 (VDE 0805) and EN50178 (VDE 0160)
- I/O separation SELV EN60950-1, PELV EN60204-1
- EMC immunity EN61000-4-2; EN61000-4-3; EN61000-4-4; EN61000-4-5
- EMC emission EN61000-6-4; EN61000-3-2
- Safety EEM EN60204-1
- CE marked according 2014/30/UE
- LVD 2014/35/UE

# Altech Corp.®

Your Source for Automation & Control Components

[www.AltechCorp.com/POWER](http://www.AltechCorp.com/POWER)  
or 908.806.9400 for all the details

# Flex Line DIN Rail Power Supplies PSA and PSB Type / 24V DC Solution

## Comparison (5A unit)

	Standard SMPS	High performance SMPS	<b>Altech® Flex</b>
<b>Input power options</b>	110 or 230 VAC	110 or 230 VAC	<b>110, 230, 400, 500 VAC</b>
<b>Nominal output voltage</b>	24 V DC	24 V DC	24 V DC
<b>Output voltage range</b>	24 V DC ... 28 V DC	24 V DC ... 28 V DC	22 V DC ... 27 V DC
<b>Nominal output current</b>	5A	5A	5A
<b>Power boost peak power</b>	N/A	7.5 A	7.5A
<b>Continues output mode</b>	N/A	N/A	<b>12A</b>
<b>Max. peak power time</b>	n/a	5 seconds	<b>3 minutes</b>
<b>Hiccup mode protection, automatic restart</b>	yes	yes	YES
<b>Manual reset mode protection</b>	no	no	<b>YES</b>
<b>Continues output mode protection</b>	no	no	<b>YES</b>
<b>DIN rail mount</b>	yes	yes	YES
<b>Easy parallel connection</b>	No	no	<b>YES</b>
<b>Price</b>	\$	\$\$\$\$	\$\$

## Power Good relay for monitoring the output voltage level

Output voltage is continuously monitored. The units 24 VDC output are equipped with Power Good relay. The NO contact triggers any time the output voltage level goes below 20VDC (24 VDC output). This feature is particularly useful in redundant applications.

## Thermo-magnetic Circuit Breakers

Standard output circuit breakers can be triggered quickly and reliably with FLEX technology, which allows three times the nominal current at 60°C. Defective current paths are selectively disconnected, the defect is limited and the important parts of the system remain in operation. This together with the 50% overload capacity in compliance with EN60204-1 allows to safely manage any overload and short circuit condition.

## Product Range

Model	Output Current A	Input Voltage V AC	Output voltage V DC
PSA-6024	3	110 - 230	24
PSA-12024	5	110 - 230	24
PSA-18024	7.5	110 - 230	24
PSA-36024	14	110 - 230	24
PSA-60024	25	110 - 230	24
PSB-12024	5	230-400-500	24
PSB-18024	7.5	230-400-500	24
PSB-36024	14	230-400-500	24
PSB-60024	25	400-500 3ph	24

## Hiccup Mode Automatic Restart

This is the default factory setting of all FLEX Power units. In case of short circuit or overloading, the output current is interrupted. The device tries again to re-establish output voltage and normal condition about every 2 second till the problem is cleared.

## Continuous Output Mode

In case of short-circuit or overload, the output current is kept at high values with near zero voltage. In case of short circuit the current can reach up to 3 times the rated current at 60°C. This protection mode is used to meet the requirements of demanding loads such as motors, solenoid valves, lamps, PLC with highly capacitive input circuits and other loads with marked transient overload behavior.

## Manual Reset Mode Restart by Operator

In case of short-circuit or overload, the output current is interrupted. In order to restart the output it is necessary to switch-off the input circuit for about 1 minute. This protection mode is particularly suggested in applications where safety procedures require that reset be carried out only by an authorized person.

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