

# STOCK RANGE OF SINGLE OUTPUT 24V DC SWITCHED-MODE POWER SUPPLIES WITH BOTH SINGLE OR THREE PHASE INPUTS & SPECIAL OPTIONAL FUNCTIONS

## Competent COSMO slimline series.

- Slim construction to maximise space on the DIN rail.
- Covered input connections and range of 5A ~20A at 24V DC.
- Power factor correction to EN 61000-3-2.
- Extended output voltage range.
- Balanced load sharing when wired in parallel.
- Low ripple < 50mV.
- Overload indicator.

- Approvals include UL and CUL.
- Special optional functions.



The Competent COSMO slim line series offers the design engineer the optimum in design excellence for a comprehensive range of 24V DC applications.

The slim construction maximises the space on the DIN rail and units from 24V DC 5A to 20A have a unique termination cover to protect the connections and the wiring. The terminations are a cage clamp type for ease of wiring and consistent reliability. All units comply with EN 61000-3-2 for the latest power factor correction requirements. The DC output voltage is adjustable as shown in the table below, and when they are wired in parallel the load is balanced automatically between the units. The output ripple is below 50mV and in the event of an overload a red LED indicator is activated. Special optional functions include remote ON/OFF control, overload signalling and power failure signalling as well as having the option of either hiccup mode or turn-off mode for the output overload protection. The units are fully approved to the highest standards including UL, CUL and LGA.

Reference	Input range	Output	W	D	H	Weight	Typical	Output adjustment range
149002-21001	94-265V 1ph	24V DC 1.25A	45	105	72	0.20	85%	23.3V to 24.7V DC
149001-31001	94-265V 1ph	24V DC 2.0A	45	105	72	0.20	89%	23.3V to 24.7V DC
149001-51056	94-265V 1ph	24V DC 5.0A	70	139	132	0.90	89%	22V to 30V DC (30V max. 4A)
149001-51111	93-132V & 187-265V 1ph	24V DC 10A	70	164	147	1.2	90%	22V to 30V DC (30V max. 8A)
149001-61114	190-265V 1ph	24V DC 20A	86	173	227	2.0	89%	22V to 29V DC (29V max. 16A)
149001-61116	340-550V 3ph	24V DC 20A	86	173	227	2.0	89%	22V to 29V DC (29V max.16.5A)

## Competent COSMO conventional series High quality and high reliability

- From 2.5A to 40A at 24V DC
- In both single and 3 phase inputs
- Overload indicator
- Safety standard to IEC 950, EN 60950 and VDE 0805
- RFI suppression to EN 55011/ EN 5022 Class B
- Noise immunity to EN 50082-1/-2



The Competent Cosmo conventional 24V DC range offer high specification and proven reliability.

The range has been extensively used throughout the world and has a proven track record for long term reliability and high quality. Units are available from 24V DC 2.5A to 40A and are offered in both 1ph or 3ph inputs. RFI suppression is to EN 55011/ EN 55022 Class B and noise immunity is to EN 50082-1/-2. They are fully protected against overload and short circuit and are in accordance to IEC 950, EN 60950 and VDE 0805 safety requirements. All units have an inbuilt on indicator.

Reference	Input range	Output	W	D	H	Weight	Typical	Output adjustment range
149001-41001	94-265V 1ph	24V DC 2.5A	108	65	123	0.60	86%	22.5V to 27.5V DC
149001-51051	94-265V 1ph	24V DC 5.0A	147	86	123	0.80	86%	22.5V to 27.5V DC
149001-51101	97-132V & 195-265V 1ph	24V DC 10A	205	86	123	1.20	89%	22.5V to 27.5V DC
149001-51301	340-550V 3ph	24V DC 10A	81	160	153	1.40	90%	23V to 30V DC
149001-61103	195-265V 1ph	24V DC 20A	240	86	153	1.90	88%	22.5V to 27.5V DC
149001-61101	340-550V 3ph	24V DC 20A	240	86	153	1.90	90%	22.5V to 27.5V DC
149001-71101	340-550V 3ph	24V DC 40A	292	130	195	3.60	90%	22.5 to 27.5V DC

