

# Samlex DC/DC Voltage Converters

## SDC Series



The SDC range of DC-DC converters are ideal for use in trucks, buses or any 24 volt vehicle application where you need to step down the voltage to drive radios, mobile phone car kits or auxiliary devices at 12 volts. In communications sites where the many services are now powered by 24 volts, these DC-DC converters can be used to power other devices that require 12 Volts. Can also be used to charge 12 volt batteries, in multi-voltage systems.



SDC12 Shown Above

These ultra-compact converters are available in various current ratings and combined with easy wiring connections, this product can fit in a vast number of mounting locations within vehicles. Built in protection circuitry will give you peace of mind and provide long lasting performance.

Available in current capacities of 5, 8, 12, 20 and 30 Amps, these DC-DC converters offer industry leading low noise and output stability, and efficiencies of up to 92%, making these DC-DC converters cool to run. With its wide voltage input window, the SDC range will always give you that steady constant output required for all kinds of sensitive equipment.

### Features:

- The SDC-20 and SDC-30 can also be used as a 13.8Vdc battery charger enabling the charging of a 12V starter or accessory battery from a 24V system.
- High Efficiency with over voltage, over temperature and short circuit protection.
- Provides protection against voltage spikes for sensitive equipment.
- Compact and light weight.
- Suited to negative ground installations.

Model Number	SDC05	SDC08	SDC12	SDC20	SDC30
Input to Output Isolation	Not isolated. Input and output connection have a common negative				
Input Voltage VDC	20 - 35				
Output Voltage VDC	13.6 ±0.1				
Output Voltage Regulation	3%				
Input Current at No Load mA	<5				
Output Current - Continuous A	5	8	12	20	30
Current Limit*	5.5	8.5	12.5	25	35
Output Ripple & Noise mV RMS	Less than 50				
Efficiency	~ 92%				
Operating Ambient Temp. °C	-20 to -30 (de-rate linear to zero at 70°C)				
Humidity	Max. 95%. Non condensing				
Protections:					
Overload Over Heating Reverse Polarity Over Voltage	By current limiting Drop in output voltage Fuse Protected Varistor (also protects against load dump)				
Input Side Fuse (Inside Out) A	5	8	12	20	30
Input / Output Connections	Terminal Block – 6.3mm male flat tab / quick connect				
Dimensions (LxWxH) mm	49x88x49	98x88x49	98x88x49	126x88x49	151x88x49
Weight Kg	0.12	0.25	0.25	0.48	0.6

Note: In current limit condition, the output voltage will drop if the current drawn increases beyond the current limit value.