

DC-DC Converter Specification

SA31052

Input voltage	Output voltage	Output current	Output power	Efficiency	Size
18-36V DC	12V DC	15 Amps	180 Watts	96%	74*74*32mm



Features

- Design meeting RoHS / CE
- High efficiency: 96% (@ 24V input)
- Non-isolated between input and output
- Internal capacitor: NCC & NICHICON (high reliability)
- 100% full load burn-in test
- Short circuit, Over load, Over temperature protections
- Waterproof level IP68
- 1 Year warranty

Applications

- Trucks
- Forklifts
- Buses
- Logging Vehicles
- Electromotor
- Telecommunications
- Boat & Yacht
- LED Marketplaces and so on..

Model naming method

 Specifications

Model	SA31052		
Input	Rated voltage	V	24
	Voltage range	V	18-36
	Efficiency (type)	%	96% @ 24Vin
	Positive cable (red)	AWG	16 @ 16.5cm length
	Negative cable (black)	AWG	16 @ 16.5cm length
Output	Voltage	V	12
	Max. rated current	A	15
	Max. rated power	W	180
	Voltage regulation	%	±1
	Load regulation	%	2
	No load loss	W	0.5
	Ripple & noise	mV	120
	Positive cable (yellow)	AWG	14 @ 16.5cm length
	Negative cable (black)	AWG	14 @ 16.5cm length
Environment	Working temperature	°c	-35 ~ +80
	Working humidity	RH	10% ~ 90%
	Storage temperature	°c	-40 ~ +85
Function	Short circuit protection		YES
	Over load protection		YES
	Waterproof		IP68
	Over temperature protection		YES
	Over voltage protection		YES
Mechanical	Weight	g	280
	Size	mm	74*74*32
Other	Cooling		Free air convection
	Packaging		White box