

24V / 48V SMPS BASED AC - DC CONVERTER



Statcon's SMPS based AC-DC Converter are backed-up by company's long experience in the field of power electronics including the experience of designing up to 3000W SMPS module. The AC-DC Converters are widely used in Power industry / PLCC / Control & Instrumentation / Railways / Telecommunication and other similar application.

The AC-DC Converters are the outcome of the advanced power electronics, based on high frequency switching technology with high Efficiency. The converter module is compact and light weight with facility to parallel them with active load sharing to meet the total load requirement. The unique automatic Power factor correction circuit not only maintains power factor close to unity (~0.95) but reduces input line current harmonics within 10%.

Specially designed filter are used at its input to suppress EMI/RFI radiation. In addition to above surge suppression circuit is used both at input and output lines. The module gives the highly stable out put to meet the designed load requirements on wide range of the AC input supply. The Technology used for AC to DC conversion is fully solid state MOSFET based PWM controlled.

TECHNICAL SPECIFICATION

Input Voltage	:	150V-275V AC, 50Hz±3Hz, 1-Phase.
Output Voltage	:	24V / 48V DC
Output Current	:	25A/50A/70A at 24V and 25A/40A at 48V
Voltage Regulation	:	Within ±1% for variation of Input AC mains supply & 0 to 100% Load variation
Current Regulation	:	Within ±2.5% for variation of Input AC mains supply
Operating Temperature	:	0°C to +55 °C, Max. relative humidity of 95% non-condensing
Altitude	:	1000m above MSL
Output Ripple	:	300mVp-p
Efficiency	:	>90% at normal input & at rated load
DISPLAY	:	Digital display to display Voltage & Current

* The above Parameters are subject to change without prior notice due to continuous improvement in technology.

OTHER PRODUCTS:

- Ground Power Unit for Aircraft starting / Servicing.
- Portable GPU for Helicopters / Light Aircrafts.
- Helicopter Starting Rectifier.
- Frequency Converter upto 140kVA.
- Battery Discharger-Capacity Tester.
- Cell monitoring System for Aircraft Battery.
- Custom built High Power Rectifiers / Controls.
- Load Bank for Alternator / DG set testing.
- AC-DC & DC-DC Converters.
- Battery Chargers from 24V/48V/110V/220V upto 1500A.
- Micro Controller based Battery Chargers.
- Integrated Power Supply for Railway Signalling.
- SMPS based chargers for Telecom (48V) & Power Sector (110V / 220V).
- Embedded System based product development.

Statcon Power controls Ltd.