

# AutoCav24VDC™ Power Supply



The AutoCav24DC High Current power supply is suitable for 12 & 24V DC applications. It comes standard with battery back-up charging circuit, along with an RS485 communications port to remotely monitor the power supply and battery condition.

## Specification

Input Voltage:	Optional 110 or 230Vac nominal, ±10%, 50/60Hz. The power supply will withstand a 5 minute, +15% surge on the maximum nominal voltage Ensure mains supply is rated to 10Amps.
Output Voltage:	Main load: 24.0V ± 0.4V (20 Amps) stable output Auxiliary #1: 12.0V (2 Amps) Auxiliary #2: 24.0V (4 Amps)
Output Current:	20A (Nominal) Continuous up to a total of 480W. 35A Peak (load + auxiliary + battery charge current up to 840W) 10 seconds max per minute
Communications:	Half Duplex RS485/19200 baud/8 bits/None/1 stop bit
Dimensions:	L 305mm x W 215mm x H 84mm (plus sockets)
Weight:	< 4kg
Plugs Included:	1 x Battery Connector 1 x Main Lead Connector 1 x Auxiliary Connector 1 x Comms Port Connector
Holdup Time:	> 10mS at nominal load current and over nominal input voltage operating range
Load Regulation:	< 1.5% (24V Load Output)
Output Ripple Voltage:	< 100mV (24V Load Output @ 20A)
Over Voltage Protection:	< 32V
Over Current Protection:	33A to 40A (all loads combined)
Battery Current Limit:	30A blade fuse
Battery (Alarm):	Via RS485 Comms Port
Connect/Disconnect:	Connect: 24.0 ± 0.5V Disconnect: 20.0 ± 0.5V
Battery Trickle Charge:	1.0A typical
Battery Drain:	< 10mA
Suitable Battery Types:	Sealed Lead Acid, Valve Regulated Lead Acid (Absorbed Glass Mat or Gel) Max Battery Size 2 x 24 AH 12V in series
Efficiency:	> 85%
Cooling Fan Operation	Cooling fan on temperature: 70C + 3 degrees. Cooling fan off temperature: 50C + 3 degrees.
Ambient:	0°C – 50°C (Operating Temperature Range)
Standards	Safety: EN60335-1 & EN60335-2-29 EMC EN55022 class A (tested with 5m 3 core O/P cable fitted with ferrite tube, third core connected to PSU case)
Compliance:	OCEI, ACA (RCM)
Warranty Period:	2 Years

