www.vidiwave.co.uk
+44 (0) 1908 690090

Vidiwave Limited
Unit 5, Beaufort Court, Roebuck Way,
Knowlhill, Milton Keynes. MK5 8HL

Product Datasheet

Part Code: 13-100-200-12

Vidisafe UPS / Charger

140 Watt DC/DC UPS / Charger

This unique technology allows end users to still gain remote access to their fleet CCTV information after the ignition and master supply voltages are removed. It automatically senses loss of DC power to load devices like CCTV / GPS and fleet diagnostics, then re-routes power from an independant dry cell DC battery providing the user with hours or days of extended remote acess via 3G or WLAN.

Key Features

- Compact Size
- Rugged Industrial Quality Chassis
- Power Output and Float Charge for Battery Back-up
- Adjustable Low-voltage operation
- Built-in Low battery disconnect protection circuit
- Low Battery - Alarm Output
- Charger Fail - Alarm Output
- Rail Standards Certification
- 4 ~ 24 hour Battery Back-up (depending on battery size)

Specifications

	DC Supply Input	Battery
Input Voltages	12VDC Nominal (10.5 ~ 16VDC)	13.8 VDC float charge to battery
	Input Current 17A max	
Input Protection	Inrush Current Limiting	Internal Safety Fuse and Crossbar Diode
	Reversed Polarity Protection	Low Battery Disconnect Circuit disengages battery at 10.5V ± 0.2V
	Varistor	
	Internal Safety Fuse	
	Lower Voltage than specified will not damage the unit	

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Specifications.....continued

Isolation	1000VDC Input to Chassis
	1500VDC Input to Chassis
	1000VDC Output to Chassis
EMC Certifications	EN60950-1
	EN50155
Immunity	EN50155
	EN50121-3-2 in accordance with: • EN61000-4-2 (ESD) • EN61000-4-3 (RF Immunity) • EN61000-4-4 (Fast Transients) • EN50155 (Surge) • EN61000-4-6 (Conducted Immunity) • EN50155 (Voltage Variations)
RoHS	Fully Compliant
Shock / Vibration	IEC61373 Cat 1A & B
EMI	EN55022 Class B and EN50121-2-3 conducted and radiated
Switching Frequency	47kHz ± 2KHz
Output Voltages / Currents	13.8VDC ± 0.2V / 10.8A
	Adjustable 13.1 ~ 14.5VDC
	The output is isolated, so either terminal can be grounded
Output Separation Diode	Installed internally
Line / Load Regulation	± 1.5% combined from 10% load to full load including separation diode
Output Ripple / Noise	Better than 30mVrms or 150mVpp (220MHz BW without Battery)
Output Overload Protection	Rectangular current limiting with hiccup type short-circuit protection
	Current limit: 11.5A ± 0.4A
	Internal safety fuse on battery input: 25A
	In case of accidental shorting of the output, the external battery fuse will fail-safe
Output Overvoltage Protection	Second regulator loop set at 15V ± 1V
Efficiency	80% at full load
Operating Temperature Range	-10°C ~ +60°C
Temperature Drift	0.03% per °C over operating

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Specifications.....continued

Cooling	Conduction via base plate and additional thermal convection
Environmental Protection	Heavy ruggedized housing
Humidity	5 ~ 95% non-condensing
MTBF	150,000 hours at 45°C
Visual Health Indicators	Charger ON LED visible through cooling slots on housing
Alarm Outputs	Low Battery Alarm (Fail Close) at 11V ± 0.2V
	Charger / AC Fail Alarm (Fail Close)
	** All alarm returns are common
Physical Dimensions	113x57x254mm
	4.4" x 2.3" x 10"
	** Mounting holes are clear
Weight	1.2Kg
	2.6 lbs
Physical Connections	12 Pole – Barrier type terminal block with 7.62mm spacing
Warranty	Two Years Manufacturers Warranty
	** Subject to application within good engineering practice