

AC Inlet System

WEATHERPROOF VEHICLE CONNECTION



**Mains electricity and water do not mix!
With 230V and 110V AC, mains is becoming a more common requirement on-board, making greater demands on the safe design of AC inlet connections.**

Antares reviewed the position with regard to inlet sockets and created the AC Inlet system. It combines: IP66 weatherproof connection when not in use, a “plug connected” interlock and AC present/ battery charger indicator lamps at the point of connection.

The system can be used as a stand alone unit or in conjunction with the UPC universal power charger.

Correctly installed the AC system is CEN1789:2000 compliant.

Plug Detection

The system prevents the vehicle being driven away whilst the inlet plug is connected, even if the mains lead is not live.

The AC inlet assembly detects that the flap is open by means of an embedded magnetic switch. This is used to provide a signal input to interlock the ignition circuit and provide a warning indication if required.

Indicators

Versions of the unit can be used in conjunction with the universal power charger family UPC or IPC2. The inlet has indicators to show that:

- Mains voltage is present
- Charging in progress
- System fault

Extension leads

The supply inlet cable is fitted with a compact Neutrik plug, providing an “insert and twist motion” to engage with the inlet.

The remote connection is supplied with an RCD plug in UK domestic format, or alternatively a BS4343 blue 230V industrial plug or a BS4343 yellow 110V industrial plug. If the BS4343 plug is used, an RCD must be fitted to the building supply system and must be suitably fused.

Installation

The unit is designed to be sited externally on a vehicle panel. When installed correctly, the IP66 rating gives protection against road spray and contaminants from the external weather.

The installation kit is complete and includes templates, fixings, labels and gasket. Mounting the unit simply requires cutting a 60mm circular aperture in the bodywork and siting four captive nuts. The unit is then bolted into place.

The location should be chosen to minimise external impact damage and with regard to



FM 37786
ISO 9001:2000

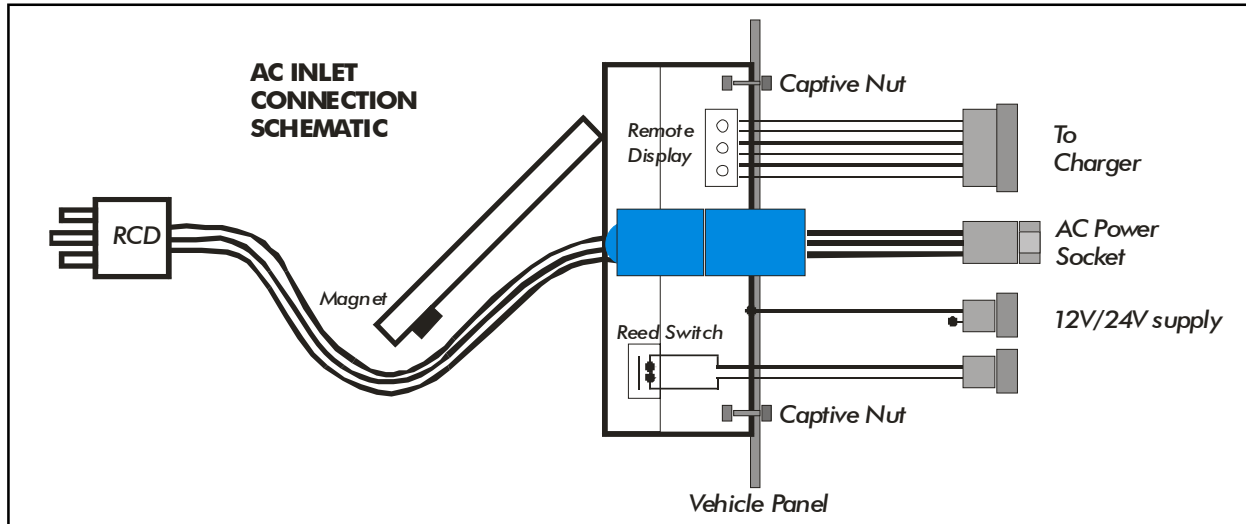
Antares (Europe) Limited
Chiltern Hill
Chalfont St Peter
Gerrards Cross
Buckinghamshire
SL9 9UQ UK

www.antares.co.uk
email: info@antares.co.uk
tel: +44 (0)1753 890888
fax: +44 (0)1753 891260

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engineering with answers

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chassis structural strength. The unit can also be mounted internally, if desired. The electrical connections are all plug to plug.

Peace of mind

The Antares AC inlet systems are specified for the needs of the professional installer. The units come with a comprehensive two year parts and labour warranty....backed by the leading UK company in this sector just specify, fit and forget!



Outline specifications					
UPC AC Inlet Part No	70591 UPC AC INLET 20A/230V 70592 UPC AC INLET 20A/230V + LEDS 70593 UPC AC INLET 20A/110V + LEDS 70594 UPC AC INLET 20A/230V + NEON				
IPC 2 AC Inlet Part No	70209 IPC2 AC INLET 10A/230V 70404 IPC2 AC INLET 10A/230V + LEDS 70311 IPC2 AC INLET 10A/110V + LEDS 70308 IPC2 AC INLET 10A/230V + NEON				
10m power input lead Part No	70212 EXT CABLE NEUTRIK/RCD BS1360 13 amp 70324 EXT CABLE NEUTRIK/BS4343/230V 15 amp 70325 EXT CABLE NEUTRIK/BS4343/110V 15 amp				
Detection type	Magnetic reed switch located in flap				
Reed Switch Rating	150mA				
AC input	Neutrik PowerCon				
IPC2 AC output to charger	IEC trailing socket 10A				
UPC AC output to charger	Flying lead				
Indicator input	IPC2	6 way Amp superseal plug (if fitted)	UPC	6 way Super-seal plug	
Reed switch output		2 way Amp superseal plug			
DC power input		2 way Amp superseal socket (one used)			
Survival temp range	-25°C, to +90°C				
Operating temp range	-10°C, to +85°C				
Environmental Protection	IP66, whilst inlet closed IP63, whilst plug connected				
Dimensions/Weight	35mm x 150mm (inc flanges) x 70mm (incl studs),				
Weight	0.3kg				