

# Ruggedised Chargers

IP67—DC & AC INPUT CHARGERS FOR EXTREME ENVIRONMENTS



Approved condition for use (CE mark):  
Marine and Automotive applications  
Fixed installations in buildings

**The Ruggedised Charger is a very compact module designed for extreme environmental applications where charging of batteries or driving sensitive loads is required.**

**A 12V or 24V battery can be charged from a DC or an AC source dependant on the unit selected.**

**The robust electronics has been fully encapsulated in powder coated, heavy duty cast aluminium castings affording the very highest levels of dust and water protection (IP67) as well as resistance to 40 G mechanical vibration. Additionally the unit is fully protected for use in temperatures from  $-25^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$ .**

**For charging in harsh climates or where there is a danger of foreign bodies accidentally entering a standard charger the Antares ruggedised charger is the right choice.**

## FEATURES

- High efficiency, cool running
- 12V and 24V outputs
- AC or DC input variants
- Output currents 3-17A
- Small and easy to install
- Latest MosFET technology
- Microprocessor controlled
- No fan

## AC INPUT VERSIONS

- Nominal 230V AC input
- Fully automatic 3 step charge cycle

## DC INPUT VERSION

- 12V or 24V input
- 12V voltage conditioning
- Charging 24V battery from 12V
- Taper charge regime

## Where can they be used?

The ruggedised chargers have been designed to be mounted in external locations, within engine bays, in lockers which can be cleaned, and where exposed to accidental impact such as loading bays.

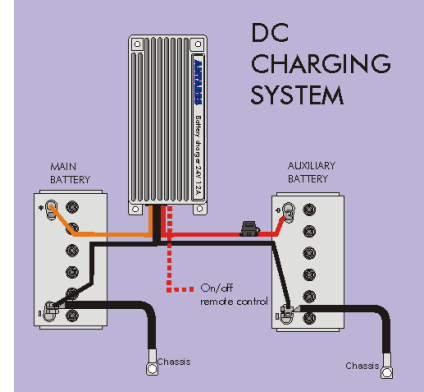
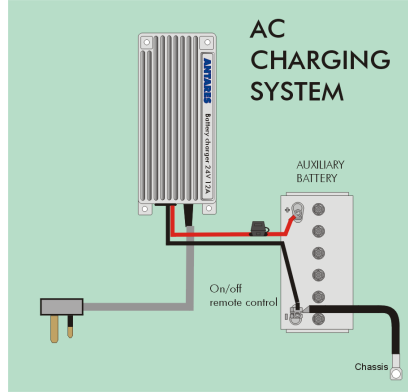
Antares TDC  
Knives Beech Business Centre  
Davies Way  
Loudwater  
HIGH WYCOMBE  
HP10 9QR UK

www.antares.co.uk  
email: info@antares.co.uk  
tel: +44 (0)1628 535440  
fax: +44 (0)1628 535441

**ANTARES**  
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Type	AC Chargers				DC Chargers		
Nominal Output (V)	12V		24V		12V	24V	24V
Input range	180-264VAC (reduced output below 200VAC)				9-14VDC	18-28VDC	9-14VDC
Output Current (A)	7A	17A	8A	12A	12A	8A	7A
<b>Part Number</b>	<b>96431</b>	<b>96432</b>	<b>96433</b>	<b>96438</b>	<b>96435</b>	<b>96437</b>	<b>96439</b>
Nominal Power	95W	238W	220W	336W	168W	220W	100W
Charging regime	3 stage charging				Taper charging		
Dimensions (mm)	155x80x43	192x98x47	155x80x43	192x98x47	150x80x43	150x80x43	150x80x43
Weight	0.9Kg	1.6Kg	0.9Kg	1.6Kg	1.0Kg	1.0Kg	1.0Kg
Efficiency	>88%						
Environmental protection	Humidity 0-100%, IP67 (splash, pressure wash), 40G mechanical vibration						
Enclosure	Powder coated aluminium, fully encapsulated, slots						
Operating temp	-25°C to +40°C						
Storage temp	-55°C to +85°C						
Quiescent Current (off)	<5mA	<1mA	<5mA	<1mA	<1mA	<1mA	<1mA
Quiescent Current (on)	<150mA	<150mA	<150mA	<150mA	220mA	190mA	220mA
Protection	Built-in overtemp protection, short circuit, reverse polarity, over/under input voltage						
AC Connection	AC connection, PVC cord, 3 x 1.5mm <sup>2</sup>				Not applicable		
DC Connection	RK Twin cable, 2 x 0.75mm <sup>2</sup>						
External control	No external control				On/off control wire		
Mounting Arrangement	Mounting flanges as standard						
Standards	CE EN60335-1, EN60335-2-29, EN55014, EN60555-2, EN60555-3				EN55022 CE and e mark e5 0086		