

CSR2 Inverter

700W-4kW PURE SINE INVERTERS FOR OFF-GRID AND ONBOARD OPERATION



e marked for vehicle use

Mains electricity is often required on-board vehicles and in off grid applications to charge or run power / cordless tools, laptops, computers, air-conditioning, refrigeration and other specialised loads where a mains connection is impractical or impossible.

Antares CSR2 Pure Sine wave Inverters are designed by our partner Cotek, specifically for professional applications where reliability is required.

Antares inverters convert power at very high efficiency to give the maximum possible running time from the smallest battery bank. Compact size, light weight and high efficiency are achieved by using high frequency output circuitry.

This comprehensive range includes 110V AC output for use with equipment powered from the vehicle, where legislation dictates, and a range of unique control and integration capabilities.

Key features

- Pure Sine Wave output
- 700W-4000W
- 12V or 24V versions
- 110V or 230V versions
- Battery low voltage shutdown
- Overload protection
- Short circuit protection
- Thermal protection
- Accurate frequency
- Stable fully regulated sine output
- Simple flange mounting
- Robust enclosure
- Remote on/off control wire
- 48VDC option (special order)
- Optional display/control panel
- Optional controllers

System design

Our engineers specialise in switch mode power design and have a wealth of know-how, applying inverters to specific tasks, combining them with the correct batteries, alternators and control philosophy - always ensuring that your system operates as intended.

DC accessories & batteries

We also offer a full range of high current DC accessories including cables, fuses, insulation covers and connectors (see separate technical sheets) as well as a comprehensive range of Valve Regulated Lead Acid (VRLA) batteries suitable for powering your inverter applications.

Antares support

Antares have a reputation for supporting our customers and products, taking great pride in giving engineering service. We have a fully equipped test and repair department in the UK to support our products throughout their life.









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ANTARES
engineering with answers

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Specifications							
Continuous power	VA (± 3%)	700	1000	1500	2000	3000	4000
Max power (1 mins)	VA (± 3%)	810	1150	1730	2300	3450	4600
Surge power (1sec)	VA	<1230	<1750	<2650	<3500	<6000	<8000
12V DC Input	230VAC	91183	91184	91185	91186	91187	N/A
24V DC Input	230VAC	91189	91190	91191	91192	91193	91194
Socket	230VAC					Hard wired	Hard wired
12V DC Input	110VAC	91170	91171	91172	91173	91174	N/A
24V DC Input	110VAC	91176	91177	91178	91179	91180	91181
Socket	110VAC					Hard wired	Hard wired
Input voltage range		12V versions = 10.5-16.5VDC , 24V versions 21-33VDC					
Typical efficiency (230VAC version)		88%	89%	89%	89%	89%	88%
Dimensions width	mm	200	200	248	248	255	255
Dimensions length	mm	330	372	421	443	442	462
Dimensions height	mm	83	83	83	83	158	158
Weight	kg	2.6	3.3	4.2	5.3	8.2	10.0
No-load power	Watts	18W	19W	17W	22W	45W	45W
Standby mode power	Watts	1W	1W	1W	1W	5W	5W
Output waveform		Pure Sinewave (THD < 5% @ normal load)					
Output voltage		200 / 220 / 230 / 240 VAC or 100 /110 /120VAC (±3%)					
Output frequency		50Hz/60Hz ±0.5% (DIP switch selectable)					
Environment		Operating -20°C to 40°C (storage –30°C to 70°C) Humidity 10-95%					
Protection		Overload, short circuit, reverse polarity (fuse) over/under input voltage, over temperature, low voltage shutdown, high voltage shutdown					
Signal and Control		Tri colour LED indicator, Dry contact relay terminal, on off control					
Cooling		Temperature and load controlled cooling fan					
Safety		EN60950 (230V models) UL458 (110V models)					
EMC		EN55022, EN55024, EN61000-3-2, EN61000-4-2,3,4,5,6,8,11					
E-mark		CISPR 25; ISO 11452-2; ISO7637-2					
OPTIONS							
CSR2 Remote Control Panel (Advanced)		Panel provides remote protection LEDs, voltage LED ladder, power LED ladder, and on/off button. Suitable for either 12V or 24V Pn 91074,					
CSR2 In-line controller (cannot be used with remote panel)		Control wire switches inverter on when voltage is applied to the input wire - 12V version Pn 70577, 24V version Pn 70596 Delayed switch off and other program versions are available					