CoolPro

Cathodic Converter™ · ICCP Controller



98%
Peak efficiency (up to)

30 A
Max output current

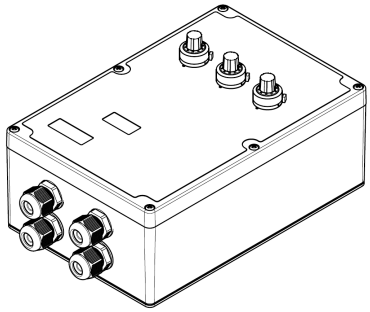
60 Vdc
Max input voltage

IP65
Weatherproof rating

Specifications

CP30 · AER04

The CoolPro Cathodic Converter™ is a fan-less, high-current DC–DC converter with an integrated impressed current cathodic protection (ICCP) controller, for remote solar-powered sites. Its low-heat design reduces component temperature and thermal cycling, and its weatherproof enclosure suits the harsh sites where cathodic protection is often deployed. Units can run in parallel to protect large metallic structures.



Dimensions (L × W × H): 240 × 160 × 90 mm

General

Weight
1.5 kg

Dimensions (L × W × H)
240 × 160 × 90 mm

I/O power cable size
25 mm²

Enclosure rating
IP65

Cooling
Passive · fan-less

Maximum ratings — CP30

Max ambient temp. (T_{amb})
65 °C @ 12 / 24 V · 50 °C @ 36 / 48 V

Max output current (I_{batt})
30 A

Min input voltage (V_{MIN})
11 V

Max input voltage (V_{MAX})
60 V

Electrical characteristics

Output voltage (V_{OUT}, adj.)
0 – V_{IN}

Standby current (I_q)
35 mA

Efficiency η @ 10 V, 30 A, 25 °C
97.00%

Output current var. w/ load
< ±0.50%

Output current var. w/ temp.
< ±0.50%

Current interruption fall time
1–2 ms (typ)

Features

- **Peak efficiency** up to 98%
- **Low-heat** thermal design
- **On-board surge protection**; Surge Buster option
- **−20 to 65 °C** (12 V / 24 V input) or **−20 to 50 °C** (36 V / 48 V input)
- **Passive cooling**, no fans
- **High-speed** ON/OFF control for off-potential surveys
- **Parallel operation** for large structures
- **IP65** weatherproof enclosure

Models

CP30

Options

Surge Buster

Structure / Ref Cell Potential Control

Engineered and supplied by

Australian Energy Research Laboratories
1/75 Bluestone Circuit, Seventeen Mile Rocks
QLD 4073

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