aerl | COOLPRO

IMPRESSED CURRENT CATHODIC PROTECTION

DATASHEET · REV 2.0.0 · 2026

CoolPro

Cathodic Converter™ · ICCP Controller

An efficient and reliable **high current DC-DC converter** with an integrated Impressed Current Cathodic Protection (ICCP) controller, ideal for use in remote solar powered applications.

>98 %	30 A	60 Vdc	IP65
PEAK POWER EFFICIENCY	MAX OUTPUT CURRENT	MAX INPUT VOLTAGE	WEATHERPROOF RATING

Specifications

CP30 · AER04

The CoolPro Cathodic Converter™ is a highly efficient, fan-less high-current DC-DC converter with an integrated ICCP controller. Its low-heat thermal design reduces component operating temperature and thermal cycling, and a durable weatherproof enclosure suits the harsh environments in which cathodic protection is often deployed. Units may be operated in parallel to protect even the largest metallic structure.

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 H @ 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)

WHY CHOOSE THE COOLPRO?

- ✓ **Super High Peak Power Efficiency** > 98%
- ✓ **Passive Cooling** – Fan-less Design
- ✓ **On-board Surge Protection**
- ✓ **Reliable Design** with IP65 Rating
- ✓ **Ultra-low heat** Thermal Design
- ✓ **High Speed** ON/OFF Control
- ✓ Suitable for **-20 to +65 °C** (12V/24V input) or +50 °C (36V/48V input)

MODELS

CP30

OPTIONS

Surge Buster

Structure / Ref Cell Potential Control

MANUFACTURED BY

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

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DOCUMENT

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