

service@cobaltsolar.com.au

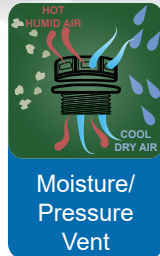
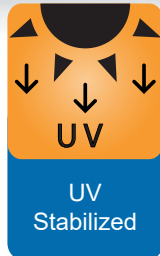
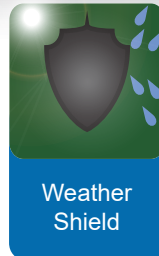
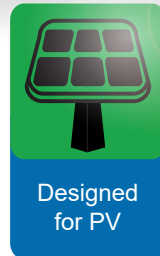
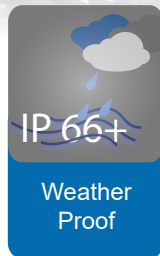
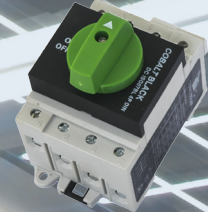
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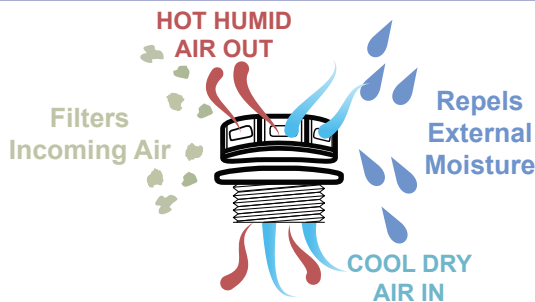


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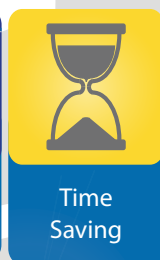
COBALTBLOCK DC Isolators



Superior Features of COBALTBLOCK DC Isolators



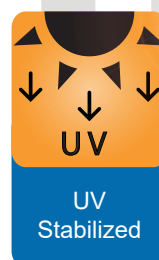
Semi-Permeable Membrane vents allow COBALTBLOCK to maintain a lower internal temperature and pressure while venting any moisture and internal condensation without allowing moisture back in. Increasing service life dramatically.



Roof Top DC isolator placement is no longer limited by rail configuration. COBALTBLOCK Module Mount Clamp, fits directly to the side or end of the solar module frame. CEC Approved isolator mounting method.



- 316 Stainless Steel Weather Shield
- PVDF Coated Aluminium
- EPDM Foam Thermal Insulation
- HD UV Stabilised Polycarbonate
- Pre-mounted ready to go



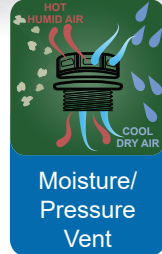
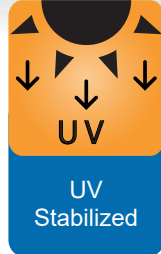
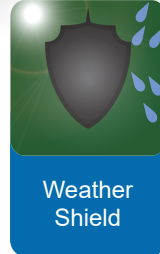
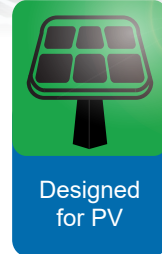
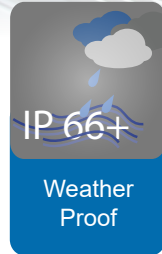
COBALTBLOCK Roof Top versions are pre-fitted with 316 Stainless Steel Weather Shield/Mount Clamp, PVDF Coated Aluminium Face Plate & Thermal Insulation. All materials employ patented UV stabilisation technology.



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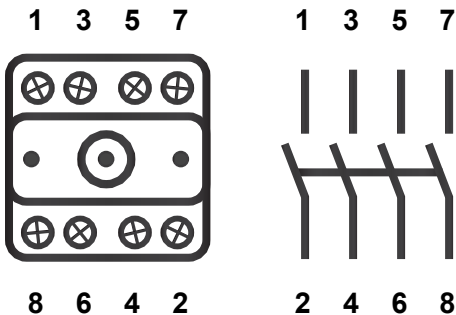


COBALTBLOCK DC Isolators



Common Specifications of COBALTBLOCK DC Isolators

COBALTBLOCK DC is specifically designed to increase safety and longevity, while saving installation time and protecting your customer's solar systems for years to come. With Robust, Aesthetically appealing UV resistant Aluminium / Polycarbonate design COBALTBLOCK DC is recommended for all quality solar installations and repairs.



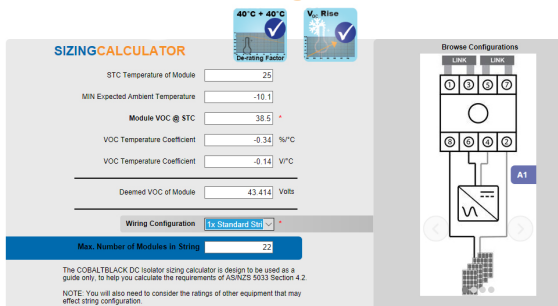
Terminals

| | |
|-----------------------------------|------------------------|
| Terminal Type | Rising Clamp |
| Cable Range | 4 - 16 mm ² |
| Terminal Screws | M4 High Tensile |
| Terminal Screw Torque | 1.2 - 1.8 Nm |
| Insulated Terminal Links Supplied | 2 Pre-installed |

Contacts

| | |
|--------------------------------|--------------------------|
| Contact Type | Knife Edge Self Cleaning |
| Oxidation Resistance | High (Silver Plated) |
| Torque Required from Operator | <1Nm |
| Uimp | 8kV |
| Icw | 1kA 1s |
| Min Insulation Rating | 1200V |
| Switching Time | <5m/s |
| Rotary Switch Type | Operator Independent |
| Energy Loss @ I _{max} | 16 Watts |

Online Sizing Calculator



Cobalt Solar Energy is proud to back the COBALTBLOCK DC isolator with an industry leading 5 Year Australian Warranty*

Fire Rating

| | |
|--------------------|-------------------------|
| Self Extinguishing | V0 Switch, V2 Enclosure |
|--------------------|-------------------------|



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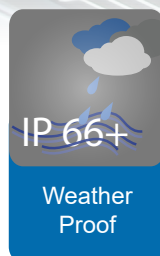
COBALBLACK DC Isolators




Self Extinguishing



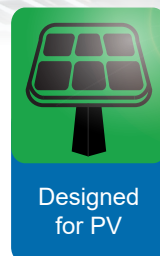
Module Mount Clamp



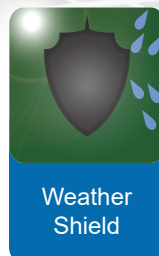
Weather Proof



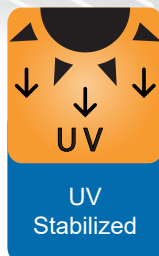
Fig 8 Marking System



Designed for PV



Weather Shield



UV Stabilized



Moisture/Pressure Vent

Certification & Ratings of COBALBLACK DC Isolators

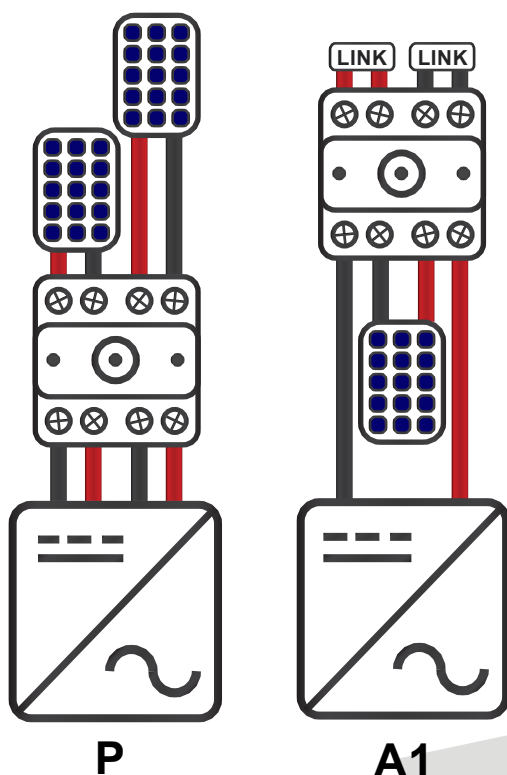
COBALBLACK DC has an online sizing calculator that can speed up your design process check it out at www.cobaltsolar.com.au/COBALBLACK_DC. With the capacity to test to full load and voltage in house each batch of COBALBLACK DC Isolators are rigorously tested to Electrical, Mechanical and Environmental specifications.

Certification & Testing

| | |
|----------------------------------|----------------|
| Standard | AS/NZS 60947-3 |
| Utilization Category | DC-PV2 |
| 3rd Party Certificate | TUV023401EA |
| Independently Tested & Certified | TUV Rheinland |

General

| | |
|--|----------------|
| IP Rating (Switch Enclosure) | IP20 IP66 NW |
| Pollution Degree | P3 |
| Temperature cycling resistance | Very High |
| Operational Ambient Temperature | -40 ~ +65°C |
| De-rating Factor @ 80°C | 0.832 V |
| Max Amps @ 40°C <i>l</i> the without Solar | 32A |
| Max Amps @ 60°C <i>l</i> the with Solar | 29A |



DC Switching Rating

2 Pole Series (A1) Amps : Volts (*U_e*)

32A @ 300V | 27A @ 600V | 17A @ 800V | 10A @ 1000V | 8A @ 1200V

1 Pole Series (P)

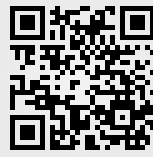
27A @ 300V | 20A @ 400V | 14A @ 500V | 8A @ 600V

Max Volts : Amps (*I_e*)

1200V : 32A

I (make) and *I_c* (break) DC-PV2

(A1) 128A @ 300V | 108A @ 600V | 68A @ 800V | 40A @ 1000V | 32A @ 1200V (P) 4x Rating Above



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COBALTBLOCK DC Isolators



VO

Self Extinguishing

Module Mount Clamp

IP 66+

Weather Proof

348.8

Fig 8 Marking System

Designed for PV

Weather Shield

UV

UV Stabilized

Moisture/ Pressure Vent

Enclosure Details of COBALTBLOCK DC Isolators

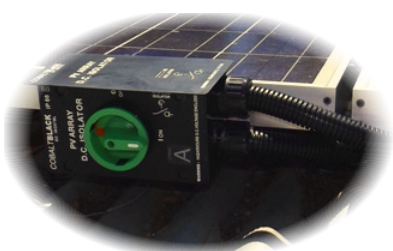
Top quality Polycarbonate by leading global brands, high levels of Carbon black, UV Blockers, HALS and other stabilisation technologies, protected further by included metal weather shielding and Thermal insulation, COBALTBLOCK DC Isolators will dominate year after year in the harsh Australian sun. With extra heavy-duty design, a high level of Moisture, Corrosion and Thermal protection COBALTBLOCK DC Isolators will stand up against just about anything.

Enclosure Details

| | |
|-----------------------------|---------------------------|
| Dimensions | 170mm x 98mm x 80mm |
| Entries | 4x M25 Threaded + Washers |
| Over Compression Protection | Yes, Lid Seal |
| Mounting Type | SS316 External Brackets |
| Optional Lid Screw Plugs | 4x Supplied |
| Enclosure Material | Polycarbonate |
| Enclosure Face | Aluminium PVDF Coated |
| Array Earth Joiner | 2 Way |
| IP Rating Enclosure | IP66+ |

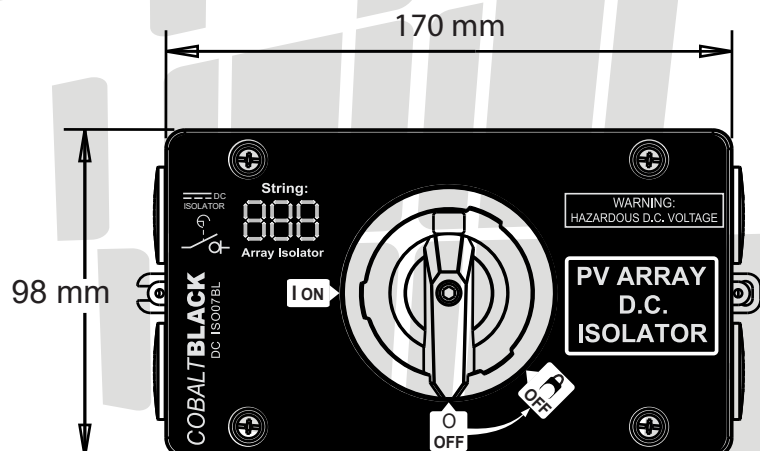


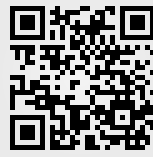
Failed Install



Repaired with COBALTBLOCK

Module Mount Clamp

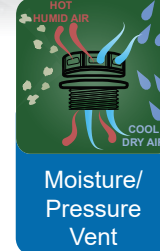
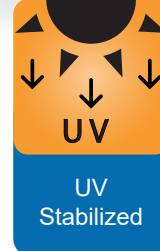
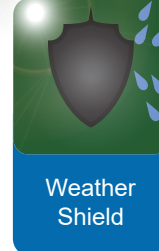
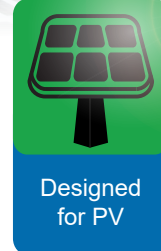
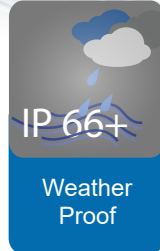




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COBALTBLOCK DC Isolators



Models Available, COBALTBLOCK DC Isolators

COBALTBLOCK DC Isolators available with or without plugs, for Roof Top, Wall Mount or Both in a set. HD Solar Plugs have a solid copper core, are cost effective and form a high-quality connection. Genuine MC4 Plugs are industry standard but expensive, internal contact is light weight folded copper sheet. Both plug versions come with two matching pairs of plugs to fit off cable to and from the isolator. Roof Top isolators are pre-labelled in landscape orientation and come pre-fitted to the 316 Stainless Steel Weather Shield with Module Mount Clamp.



Roof Top Isolator *Outdoor Use*

- Hard Wired CSE-DC ISO07BL-ROOF
- With HD Solar Plugs (*Fitted Rear*) CSE-DC ISO07BL-1SC-ROOF
- With Genuine MC4 Plugs (*Fitted Rear*) CSE-DC ISO07BL-1MC4-ROOF



Wall Mount Isolator *Indoor or Outdoor Use*

- Hard Wired CSE-DC ISO07BL-INV
- 2x Din Mount in 8 bay Enclosure CSE-ENC8B-2SD

Din Rail Mount Isolator *Indoor or Enclosed use ONLY*

- Hard Wired CSE-DC ISO07BL-4P-DIN

Important Note: ALL pre-connected Isolator terminals must be checked due to the risk of loosening during transport