



**PROTEK**

# DC IP65 Rotary Isolator

## Specification

Designed in the UK to BS5486 Part 13: 1989  
 Assembled in the UK to BSEN 60439-3  
 Type Tested to BS EN 60947-3  
 Utilisation category DC-21B for Photovoltaic applications  
 Degree of protection IP65 to BSEN 60529  
 Base ABS, Lid PS Styrol (both flame retardant)  
 size 1 enclosure, ABS/Polycarbonate size 2/3  
 Wall mountable  
 Handle padlockable in OFF position accepts three padlocks  
 Gasket-less seal size 1 enclosure  
 No need to remove handle to open unit  
 10A to 40A  
 Multi-pole switching  
 Ample cabling space  
 No pre-punched knockouts allowing any size of gland to be fitted  
 Caps for screws to ensure IP65 after installation (assuming glanding is sealed correctly)  
 Captive screws



**ROT210DCIP to  
ROT230DCIP**



**ROT235DCIP &  
ROT240DCIO**

## Rotary Switch selection Table

Part Number	Rating	No. of Poles	Description
ROT210DCIP	10A	3	10A DC* Rated Rotary Switch Ins IP65
ROT216DCIP	16A	3	16A DC* Rated Rotary Switch Ins IP65
ROT220DCIP	20A	3	20A DC* Rated Rotary Switch Ins IP65
ROT225DCIP	25A	3	25A DC* Rated Rotary Switch Ins IP65
ROT232DCIP	30A	3	30A DC* Rated Rotary Switch Ins IP65
ROT235DCIP	35A	3	35A DC* Rated Rotary Switch Ins IP65
ROT240DCIP	40A	6	40A DC* Rated Rotary Switch Ins IP65

**\* See table overleaf for operating voltages**



## Technical

Part No.	Rated Operational Voltage (d.c.)	Rated Operational Current ( $I_{the}$ ) DC21B	Rated Insulation Voltage ( $U_i$ )	No. of Poles in series	Connection Diagram	Enclosure size
ROT210DCIP	500v	10A	690v	3	A	1
ROT216DCIP	500v	16A	690v	3	A	1
ROT220DCIP	500v	20A	690v	3	A	1
ROT225DCIP	500v	25A	690v	3	A	1
ROT230DCIP	500v	30A	690v	3	A	1
ROT235DCIP	450v	35A	690v	3	A	2
ROT235DCIP	500v	30A	690v	3	A	2
ROT240DCIP	1000v	16A	1000v	6	B	3
ROT240DCIP	750v	35A	1000v	6	B	3
ROT240DCIP	500v	35A	1000v	6	B	3
ROT240DCIP	450v	40A	1000v	6	B	3

## Terminal Capacity

Cable Type	Rigid	Flexible	Maximum torque
Cable Capacity	10mm <sup>2</sup>	6mm <sup>2</sup>	1.2Nm

## Connection Diagram (Links supplied and factory fitted)

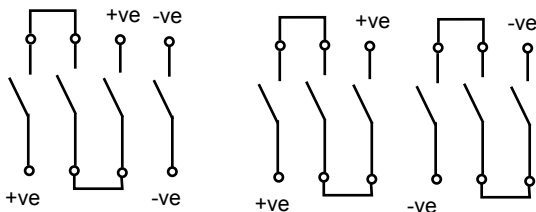


Diagram A

Diagram B

The incoming and outgoing +ve and -ve terminals are clearly marked on the switch disconnectors as indicated.



Diagram A

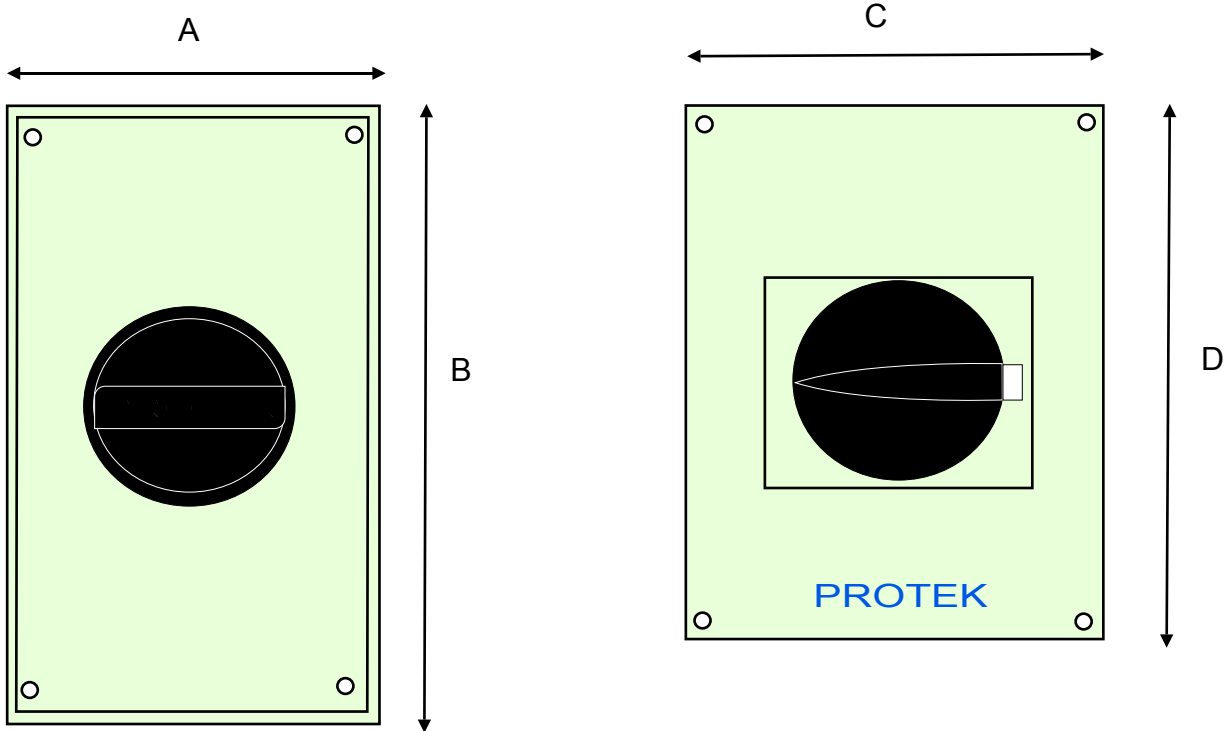
Diagram B

Switches shown with factory links fitted



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### Dimension



**10A to 30A**

**35A to 40A**

	Size 1
A	115mm
B	195mm
Depth	120mm

	Size 2	Size 3
C	100mm	130mm
D	135mm	175mm
Depth	95mm	115mm

**Note:-**

Always ensure that DC Isolator's operating voltage matches that of the incoming supply voltage of the inverter and the maximum supply voltage generated by the solar panels used.

i.e.

If a Sunny Boy SB 3300 is used which has a maximum input voltage of 500v any of the following isolators will suffice ROT216DCIP to ROT235DCIP.

If the Sunny Boy SB 2000HF range of inverters is used a ROT240DCIP will be required as it has a maximum input voltage of 700v.

phone **01543 46 75 75**  
 fax **01543 46 23 70**  
 email **sales@protekuk.co.uk**



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 DSIP65RS01