

# 32A DC isolating switch



The new N-LINE enclosed DC isolating switch has been designed, engineered and developed for 1-20kw residential and commercial rooftop solar applications. This DC isolating switch provides a safe means of isolating your PV array during installation or maintenance while keeping you and your solar system from harm's way.

For all installations up to 1500V DC, the switch is fully compliant to AS 60947.3 and AS/NZS IEC 60947.1. In addition, the polycarbonate enclosure consists of an injected TPE gasket for IP66NW protection - ensuring best protection against damaging dust and moisture ingress.



2 x M25 rear cable entries and provision for brackets



Injected TPE gasket ensures IP66NW protection

**Fully compliant with AS 60947.3:2018**  
Suitable to be used throughout Australia and New Zealand.

**Robust IP66NW polycarbonate enclosure**  
Ensured protection against damaging moisture ingress and UV exposure.

**Superior temperature performance, conforming to AS 5033:2018**  
Long lasting service life and reliable switching.

**Arcing time <3ms**  
Utmost safety and protection ensuring seamless isolation.

NHP part number	Accessories included	Description
NLAWMB		Wall mount brackets stainless steel - pack of 2
NLARDM25M12		Reducer threaded M25 to M12
NLA432PVBL		Bridging link to suit NL432PV DC isolating switch - pack of 2
		Mounting bracket screws (4) Screw caps (4) Base caps (6)

NL432PV

# NL432PV characteristics according to AS 60947.3

NHP

## Identification

## Rating data

Assembly of switch and dedicated individual enclosure — catalogue number

NL432PV

$I_{the}$  rated thermal current, indoor, at 40°C shade ambient air temperature, in a specific dedicated enclosure

32A

$I_{the}$  rated thermal current outdoors at 40°C shade ambient air temperature without solar effects in a specific dedicated enclosure IP 66NW

32A

$I_{the}$  solar current value, outdoors at 60°C shade ambient air temperature, with solar effects in a specific dedicated enclosure rated IP 66NW

29A

## Method of operation

Independent manual operation (rotary)

## Utilisation category

DC-PV2 / DC-21B

## Number of poles

4

## Non-polarised

Yes

## Suitable for isolation

Yes

$I_{the}$  rated thermal current outdoors at 40°C shade ambient air temperature without solar effects in a specific dedicated enclosure IP 66NW

32 A

## Rated insulation voltage $U_i$

1500V

## Rated impulse withstand voltage $U_{imp}$

8kV

## Rated short-time withstand current $I_{cw}$ (kA)

A2, A4: 1kA, 1s  
A2+2, A4B, A4O, A4U: 1.7kA, 1s

## Cu cable cross section

Rigid solid/stranded: 4 – 16 mm<sup>2</sup>  
Flexible: 4 – 10 mm<sup>2</sup>

## Cable Stripping Length

12mm

## IP rating (with / without pressure compensation device)

IP66NW

## Pollution degree

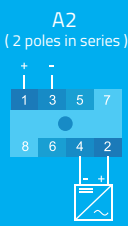
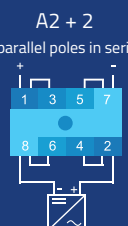
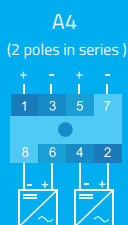
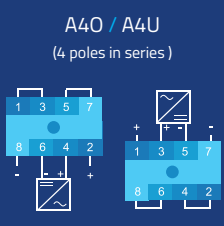
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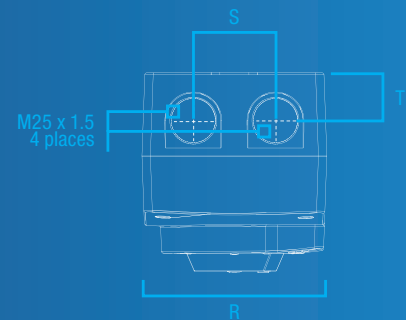
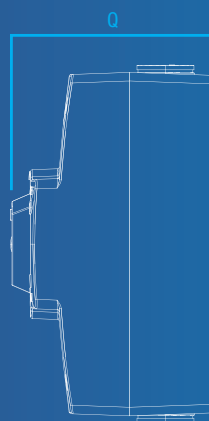
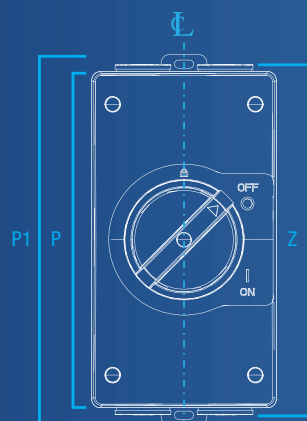
## Operating temperature

-40°C to +85°C, suitable for indoor or outdoor use

## Maximum ambient temperature

+70°C (without derating)

Connection Code	$U_e$ Rated Operational Voltage (V D.C.)	$I_o$ ; DC-PV2 Rated Operational current (A)	$I_{(make)}$ and $I_{c(break)}$ DC-PV2 $4 \times I_o$ (A)
<b>A2</b> (2 poles in series) 	≤ 500	32	128
	600	32	128
	800	32	128
	1000	13	52
	1200	13	52
<b>A2 + 2</b> (2 parallel poles in series) 	≤ 500	55	220
	600	55	220
	800	55	220
	1000	13	52
	1200	13	52
<b>A4</b> (2 poles in series) 	≤ 500	32	128
	600	32	128
	800	32	128
	1000	13	52
	1200	13	52
<b>A4O / A4U</b> (4 poles in series) 	≤ 500	32	128
	600	32	128
	800	32	128
	1000	32	128
	1200	32	128
	1500	23	92



## Dimensions

P	P1	Q	R	S	T	Z
180	198.5	107	99	44	25.5	188