

## **NOARK Statement – VIC Emergency Back-Stop full version**

### **Back ground:**

Effective October 1, 2024, all inverters installed in Victoria (VIC) are required to comply with the VIC Emergency Backstop regulations. For more details on this mandate, please visit the VIC Energy website: Victoria's Emergency Backstop Mechanism for Solar.

Under the new regulations, all inverters must be equipped with remote control capabilities and export limit devices. These devices must be able to respond to export limiting commands from Distribution Network Service Provider (DNSP) servers.

Regulations covering all VIC DNSPs:  
Powercor / Citipower/ United Energy  
Ausnet  
Jemena

**NOARK Current Solution:** Inverter with ZECO Marshall Gateway mechanism is used for Emergency Backstop regulations.

Link: <https://www.datamarshall.au/#/home/compliant-products>

**NOARK Future Solution\*:** Inverter with inbuilt cloud-based aggregator.

NOARK is currently under testing development with VIC DNSPs for inverter inbuilt communication cloud-based aggregator.

\*TO BE CONFIRMED. Please contact NOARK Support for more update.

## NOARK Statement – VIC Emergency Back-Stop full version

### Retailers requirement from 1st of October 2024:

Ensure using compliant inverter models listed on each DNSP website.

Sample from CitiPower/PowerCo

Link: <https://myenergy.powercor.com.au/s/solar-approved-inverters>

Model	Compliance Status
STS-5KTL-P (ASA777-2 2020)	Catch Power Catch Solar Relay
STS-6KTL-P (ASA777-2 2020)	Catch Power Catch Solar Relay
NOARK Electronics (Shanghai) Co Ltd	ExiN-DG
ExiN-DG-3-6KS-AU (ASA777-2 2020)	ZECO Marshall
ExiN-DG-4-6KS-AU (ASA777-2 2020)	ZECO Marshall
ExiN-DG-4KS-AU (ASA777-2 2020)	ZECO Marshall
ExiN-DG-6KS-AU (ASA777-2 2020)	ZECO Marshall
ExiN-DG-6KS-AU (ASA777-2 2020)	ZECO Marshall
ExiN-DG-6KS-AU (ASA777-2 2020)	ZECO Marshall
ExiN-DH	ExiN-DH
ExiN-DH-10KT-AU (ASA777-2 2020)	ZECO Marshall
ExiN-DH-12KS-AU (ASA777-2 2020)	ZECO Marshall
ExiN-DH-12KT-AU (ASA777-2 2020)	ZECO Marshall
ExiN-DH-14KS-AU (ASA777-2 2020)	ZECO Marshall
ExiN-DH-16KS-AU (ASA777-2 2020)	ZECO Marshall
ExiN-DH-3-6KS-AU (ASA777-2 2020)	ZECO Marshall
ExiN-DH-3KS-AU (ASA777-2 2020)	ZECO Marshall
ExiN-DH-3KS2-AU (ASA777-2 2020)	ZECO Marshall
ExiN-DH-5KS-AU (ASA777-2 2020)	ZECO Marshall
ExiN-DH-5KT-AU (ASA777-2 2020)	ZECO Marshall
ExiN-DH-6KS-AU (ASA777-2 2020)	ZECO Marshall
ExiN-DH-6KT-AU (ASA777-2 2020)	ZECO Marshall
ExiN-DH-76KS-AU (ASA777-2 2020)	ZECO Marshall
ExiN-DH-8KS-AU (ASA777-2 2020)	ZECO Marshall
ExiN-DH-8KT-AU (ASA777-2 2020)	ZECO Marshall

# NOARK Statement – VIC Emergency Back-Stop full version

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Sample from United Energy

Link: <https://myenergy.powercor.com.au/s/solar-approved-inverters>

NOARK Electronics (Shanghai) Co Ltd	Ex9N-DG	Ex9N-DG-3.6KS-AU (AS4777-2 2020)	ZECO Marshall
		Ex9N-DG-4.6KS-AU (AS4777-2 2020)	ZECO Marshall
		Ex9N-DG-4KS-AU (AS4777-2 2020)	ZECO Marshall
		Ex9N-DG-5KS-AU (AS4777-2 2020)	ZECO Marshall
		Ex9N-DG-6KS-AU (AS4777-2 2020)	ZECO Marshall
	Ex9N-DH	Ex9N-DH-10KT-AU (AS4777-2 2020)	ZECO Marshall
		Ex9N-DH-12KS-AU (AS4777-2 2020)	ZECO Marshall
		Ex9N-DH-12KT-AU (AS4777-2 2020)	ZECO Marshall
		Ex9N-DH-14KS-AU (AS4777-2 2020)	ZECO Marshall
		Ex9N-DH-16KS-AU (AS4777-2 2020)	ZECO Marshall
		Ex9N-DH-3.6KS-AU (AS4777-2 2020)	ZECO Marshall
		Ex9N-DH-3KS-AU (AS4777-2 2020)	ZECO Marshall
		Ex9N-DH-3KS1-AU (AS4777-2 2020)	ZECO Marshall
		Ex9N-DH-5KS-AU (AS4777-2 2020)	ZECO Marshall
		Ex9N-DH-5KT-AU (AS4777-2 2020)	ZECO Marshall
		Ex9N-DH-6KS-AU (AS4777-2 2020)	ZECO Marshall
		Ex9N-DH-6KT-AU (AS4777-2 2020)	ZECO Marshall
		Ex9N-DH-7.6KS-AU (AS4777-2 2020)	ZECO Marshall
		Ex9N-DH-8KS-AU (AS4777-2 2020)	ZECO Marshall

# NOARK Statement – VIC Emergency Back-Stop full version

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Sample from AusNet

Link: <https://www.ausnetservices.com.au/renewable-solutions/industry-solar/solar-manufacturers/ausnet-approved-inverter-list>

Manufacturer ^	Model v	Series v	Compatible SCC Categories v
NOARK ELECTRICS (SHANGHAI) CO LTD	Ex9N-DH-16KS-AU (AS4777-2 2020)	Ex9N-DH	• ZECO Marshall
NOARK ELECTRICS (SHANGHAI) CO LTD	Ex9N-DH-14KS-AU (AS4777-2 2020)	Ex9N-DH	• ZECO Marshall
NOARK ELECTRICS (SHANGHAI) CO LTD	Ex9N-DH-12KT-AU (AS4777-2 2020)	Ex9N-DH	• ZECO Marshall
NOARK ELECTRICS (SHANGHAI) CO LTD	Ex9N-DH-12KS-AU (AS4777-2 2020)	Ex9N-DH	• ZECO Marshall
NOARK ELECTRICS (SHANGHAI) CO LTD	Ex9N-DH-10KT-AU (AS4777-2 2020)	Ex9N-DH	• ZECO Marshall
NOARK ELECTRICS (SHANGHAI) CO LTD	Ex9N-DH-8KT-AU (AS4777-2 2020)	Ex9N-DH	• ZECO Marshall
NOARK ELECTRICS (SHANGHAI) CO LTD	Ex9N-DH-8KS-AU (AS4777-2 2020)	Ex9N-DH	• ZECO Marshall
NOARK ELECTRICS (SHANGHAI) CO LTD	Ex9N-DH-76KS-AU (AS4777-2 2020)	Ex9N-DH	• ZECO Marshall
NOARK ELECTRICS (SHANGHAI) CO LTD	Ex9N-DH-6KT-AU (AS4777-2 2020)	Ex9N-DH	• ZECO Marshall
NOARK ELECTRICS (SHANGHAI) CO LTD	Ex9N-DH-6KS-AU (AS4777-2 2020)	Ex9N-DH	• ZECO Marshall
NOARK ELECTRICS (SHANGHAI) CO LTD	Ex9N-DH-5KT-AU (AS4777-2 2020)	Ex9N-DH	• ZECO Marshall
NOARK ELECTRICS (SHANGHAI) CO LTD	Ex9N-DH-5KS-AU (AS4777-2 2020)	Ex9N-DH	• ZECO Marshall
NOARK ELECTRICS (SHANGHAI) CO LTD	Ex9N-DH-3KS-AU (AS4777-2 2020)	Ex9N-DH	• ZECO Marshall

## NOARK Statement – VIC Emergency Back-Stop full version

### Retailers requirement from 1st of October 2024:

Ensure using compliant inverter models listed on each DNSP website.

Sample from Jemena

Link: <https://www.jemena.com.au/electricity/solar-and-other-technologies/jemena-approved-list-of-inverters/>

1	Manufacturer	Series	Model Number	Supported Communication Device
1117	NOARK Electrics (Shanghai) Co Ltd	Ex9N-DG	Ex9N-DG-3.6KS-AU (AS4777-2 2020)	ZECO Marshall
1118	NOARK Electrics (Shanghai) Co Ltd	Ex9N-DG	Ex9N-DG-4.6KS-AU (AS4777-2 2020)	ZECO Marshall
1119	NOARK Electrics (Shanghai) Co Ltd	Ex9N-DG	Ex9N-DG-4KS-AU (AS4777-2 2020)	ZECO Marshall
1120	NOARK Electrics (Shanghai) Co Ltd	Ex9N-DG	Ex9N-DG-5KS-AU (AS4777-2 2020)	ZECO Marshall
1121	NOARK Electrics (Shanghai) Co Ltd	Ex9N-DG	Ex9N-DG-6KS-AU (AS4777-2 2020)	ZECO Marshall
1122	NOARK Electrics (Shanghai) Co Ltd	Ex9N-DH	Ex9N-DH-10KT-AU (AS4777-2 2020)	ZECO Marshall
1123	NOARK Electrics (Shanghai) Co Ltd	Ex9N-DH	Ex9N-DH-12KS-AU (AS4777-2 2020)	ZECO Marshall
1124	NOARK Electrics (Shanghai) Co Ltd	Ex9N-DH	Ex9N-DH-12KT-AU (AS4777-2 2020)	ZECO Marshall
1125	NOARK Electrics (Shanghai) Co Ltd	Ex9N-DH	Ex9N-DH-14KS-AU (AS4777-2 2020)	ZECO Marshall
1126	NOARK Electrics (Shanghai) Co Ltd	Ex9N-DH	Ex9N-DH-16KS-AU (AS4777-2 2020)	ZECO Marshall
1127	NOARK Electrics (Shanghai) Co Ltd	Ex9N-DH	Ex9N-DH-3.6KS-AU (AS4777-2 2020)	ZECO Marshall
1128	NOARK Electrics (Shanghai) Co Ltd	Ex9N-DH	Ex9N-DH-3KS-AU (AS4777-2 2020)	ZECO Marshall
1129	NOARK Electrics (Shanghai) Co Ltd	Ex9N-DH	Ex9N-DH-3KS1-AU (AS4777-2 2020)	ZECO Marshall
1130	NOARK Electrics (Shanghai) Co Ltd	Ex9N-DH	Ex9N-DH-5KS-AU (AS4777-2 2020)	ZECO Marshall
1131	NOARK Electrics (Shanghai) Co Ltd	Ex9N-DH	Ex9N-DH-5KT-AU (AS4777-2 2020)	ZECO Marshall
1132	NOARK Electrics (Shanghai) Co Ltd	Ex9N-DH	Ex9N-DH-6KS-AU (AS4777-2 2020)	ZECO Marshall
1133	NOARK Electrics (Shanghai) Co Ltd	Ex9N-DH	Ex9N-DH-6KT-AU (AS4777-2 2020)	ZECO Marshall
1134	NOARK Electrics (Shanghai) Co Ltd	Ex9N-DH	Ex9N-DH-7.6KS-AU (AS4777-2 2020)	ZECO Marshall
1135	NOARK Electrics (Shanghai) Co Ltd	Ex9N-DH	Ex9N-DH-8KS-AU (AS4777-2 2020)	ZECO Marshall
1136	NOARK Electrics (Shanghai) Co Ltd	Ex9N-DH	Ex9N-DH-8KT-AU (AS4777-2 2020)	ZECO Marshall

## **NOARK Statement – VIC Emergency Back-Stop full version**

### **Retailers requirement from 1st of October 2024:**

Ensure using compliant inverter models listed on each DNSP website.

Ensure selecting correct export limit accessory for complying emergency back stop referring to Appendix A: Accessory selection for Emergency backstop

Correctly install the export limit devices referring to Appendix B: accessory installation and commissioning (Zeco Marshall)

Connect the inverter to the customer's Wi-Fi (refer to the Noark Wi-Fi communication setup manual or contact the Noark support)

Register inverters on the mynoark+ or mynoark monitoring platform referring to

## NOARK Statement – VIC Emergency Back-Stop full version

Appendix A: Accessory selection for Emergency backstop

Install Type	TYPE	Inverter Model	Distance from MSB	CT Requirement
Off Grid	Inbuilt CTs	Noark 1ph (5,6,8kW) & Noark 3ph(10,12kW)	x	x
Off Grid	Inbuilt CTs	Noark 1ph (5,6,8kW) & Noark 3ph(10,12kW)	x	x
Off Grid	Inbuilt CTs	Noark 1ph (5,6,8kW) & Noark 3ph(10,12kW)	x	x
On Grid	Inbuilt CTs	Noark 1ph (5,6,8kW) & Noark 3ph(10,12kW)	<10m	y
On Grid	Easton 1ph SDM120CT-M (120A/40mA)	Noark 1ph (5,6,8kW)	>10m	y
On Grid	Easton 3ph SDM630MCT v2 (CT secondary current of 1A/5A)	Noark 3ph(10,12kW)	>10m	y

## NOARK Statement – VIC Emergency Back-Stop full version

Appendix A: Accessory selection for Emergency backstop



Eastron 3ph SDM630MCT v2 (CT secondary current of 1A/5A)



Eastron 1ph SDM120CT-M (120A/40mA)



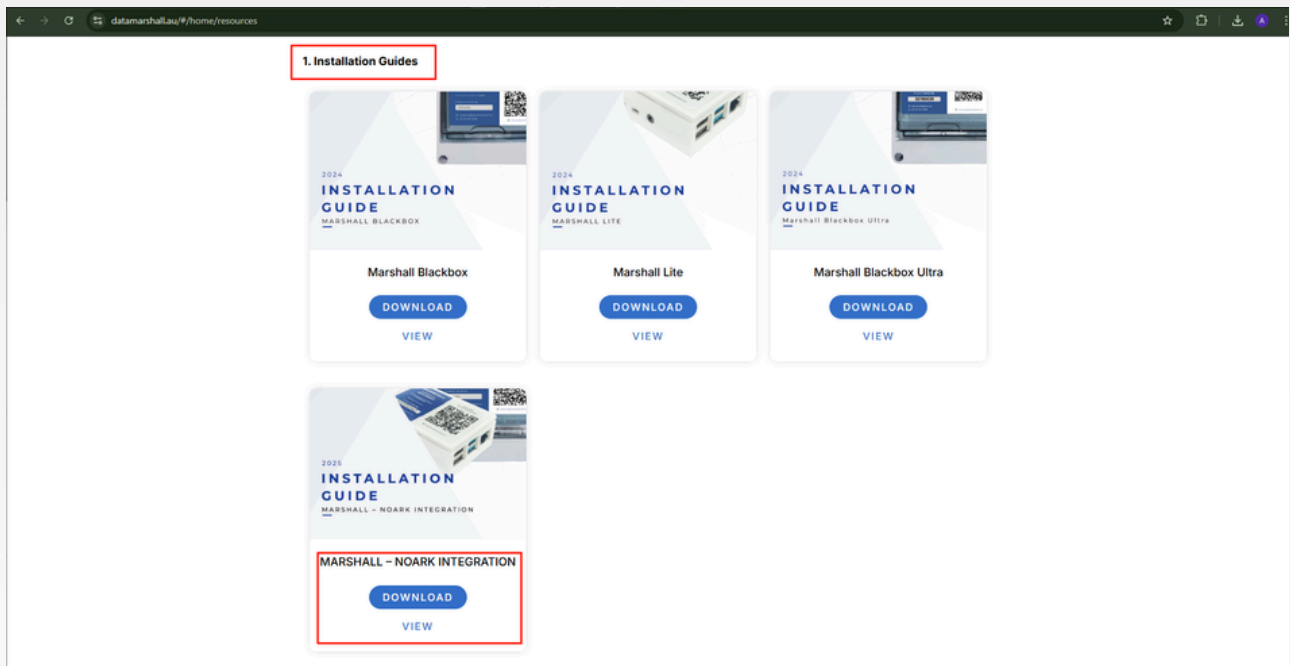
Loose inbuilt CTs with the inverter box

## NOARK Statement – VIC Emergency Back-Stop full version

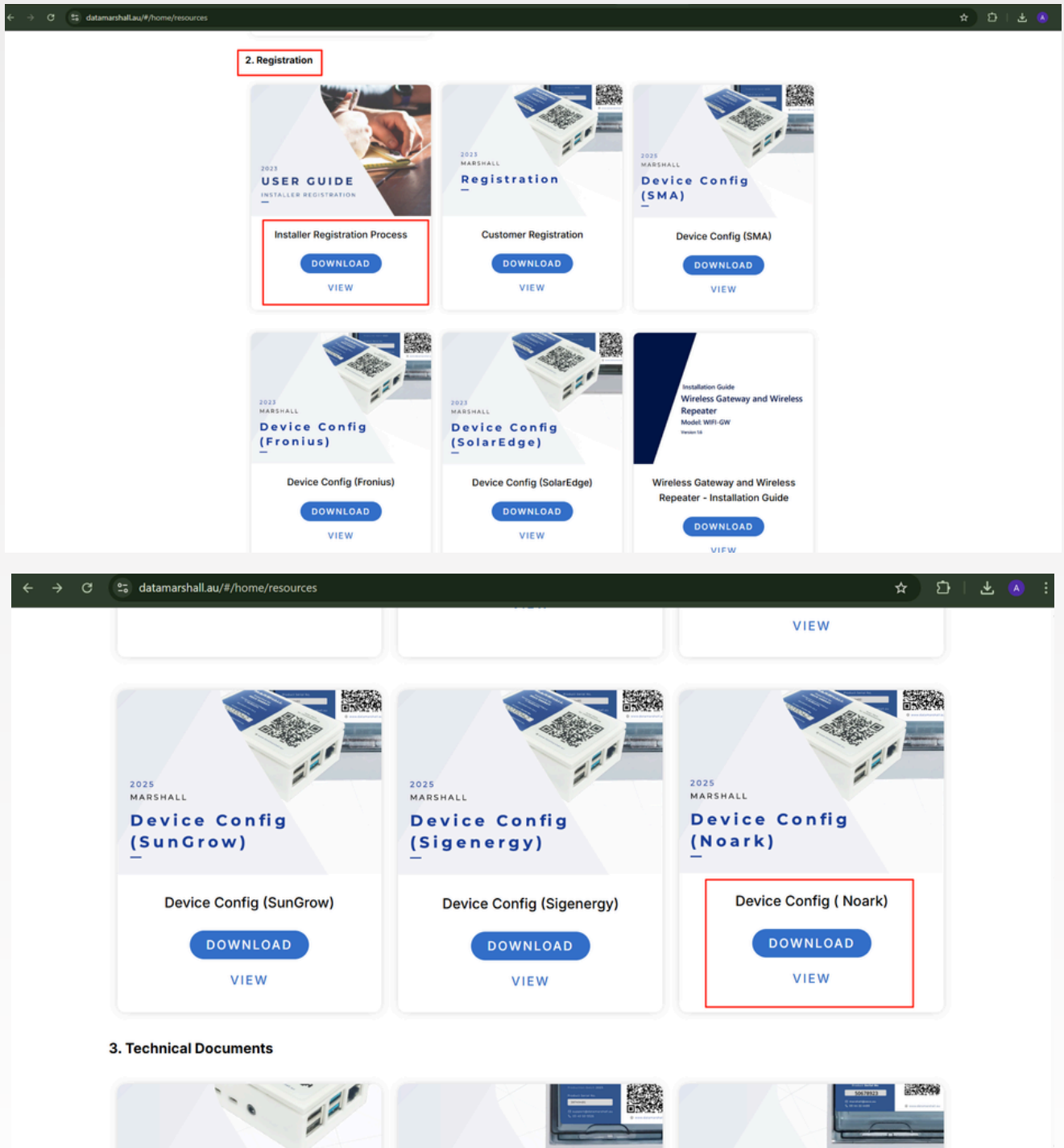
Appendix B: accessory installation and commissioning (Zeco Marshall).

Link:

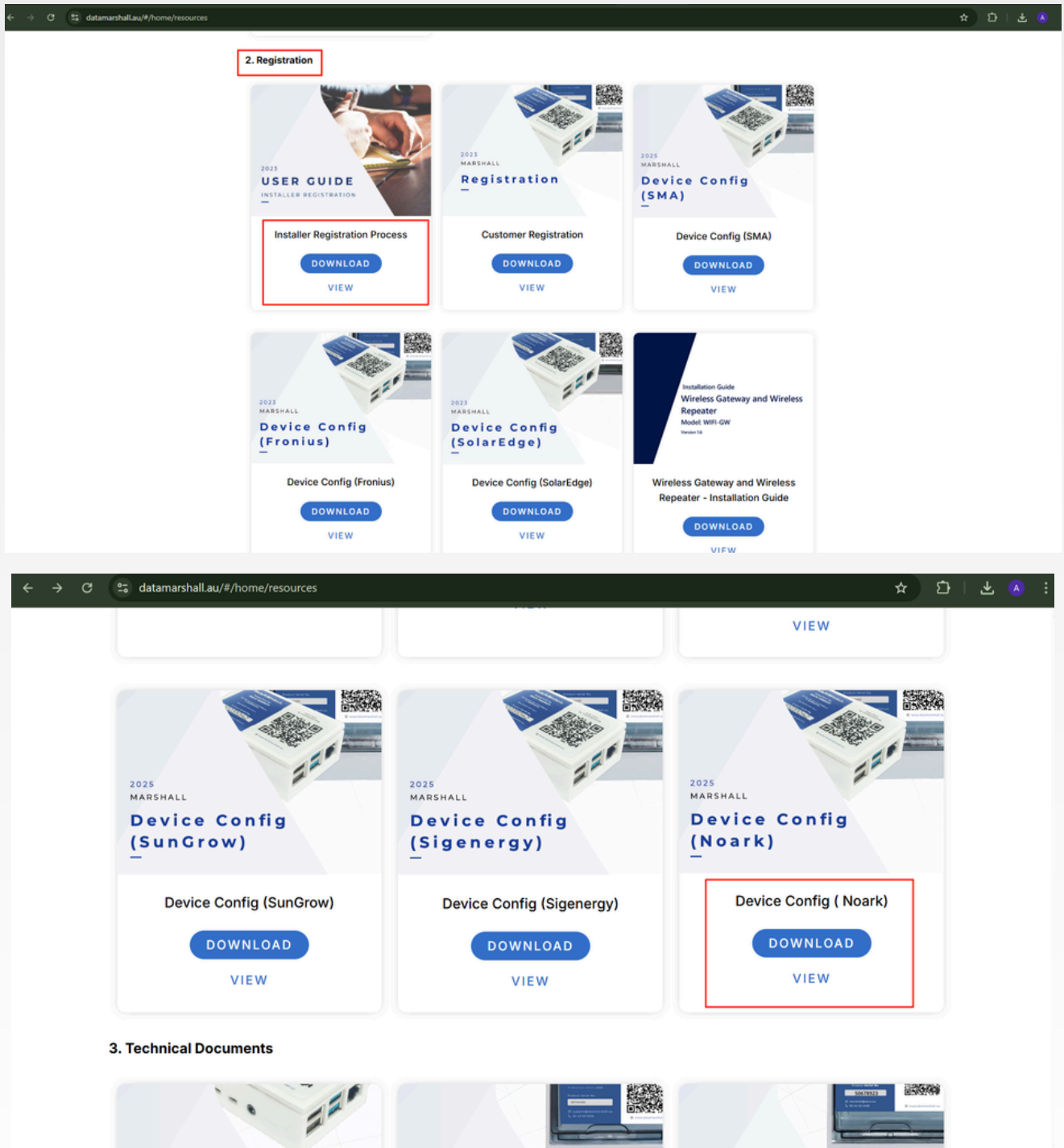
<https://www.datamarshall.au/#/home/resources>



## NOARK Statement – VIC Emergency Back-Stop full version



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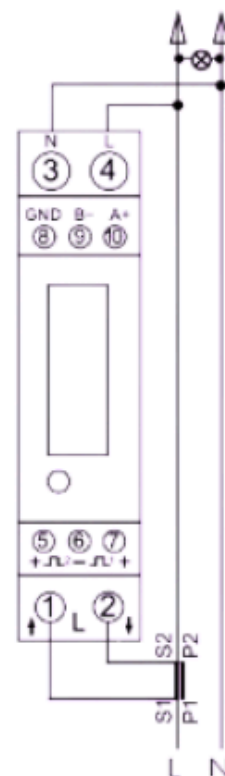


## NOARK Statement – VIC Emergency Back-Stop full version

Connect the reference voltage from the 10A RCBO at point 4 and Neutral to point 3.

Connect the CT references at 1 (White) and 2 (Black)

Note: if you use your own cable for communication cable, please make sure on the energy meter side 9-Blue, 10-Blue/White. On the inverter meter plug side as 4-blue, 5-blue/white.



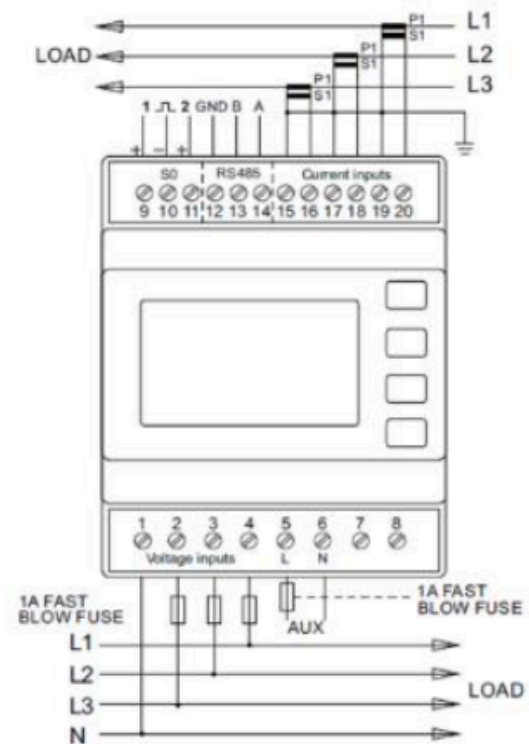
## NOARK Statement – VIC Emergency Back-Stop full version

Connect the reference voltage from the Three Phase 10A RCBO Meter supply at point 2,3,4, & 5 and Neutral to point 1&6. (Bridge between Port 4 (L1) and port 5 (LA). Similarly Bridge neutral between port 1 and port 6)

PHASE A – 4, PHASE B – 3, PHASE C – 2  
Neutral 1 & 6

Connect the CT references at  
19,20 – Phase A (Black/White, White)  
17,18 - Phase B (Black/White, White)  
15,16 - Phase C (Black/White, White)

Note: if you use your own cable for communication cable, please make sure on the energy meter side 13-Blue, 14-Blue/White. On the inverter meter plug side as 4-Blue, 5-Blue/White.



# **NOARK Statement – VIC Emergency Back-Stop full version**

Contact information:

Noark Support: [support@noark.au](mailto:support@noark.au)

Zeco Support: [technicalsupport@zeco.au](mailto:technicalsupport@zeco.au)

Noark Support Mobile: 0466 917 696