



CSIP-AU - SMA Solution Short Summary




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1. State Government Policy


































Below is a short summary of Zeco Marshall products which works with SMA inverters to compliant




		
South Australia	Queensland	Victoria
Dynamic Export Limits	Dynamic Connections	Emergency Backstop Mechanism
Source: South Australia's Dynamic Export Limits (energymining.sa.gov.au)	Source: Queensland's Dynamic Connections Energex Queensland's Dynamic Connections Ergon Energy	Source: Victoria's Emergency Backstop Mechanism (energy.vic.gov.au)
<p>From July 1, 2023, the Dynamic Export (flexible) Export requirements mandates that all exporting systems ($\leq 30\text{kVA}$) must have the capability to remotely update their export limits.</p> <p>From July 1, 2024, the Dynamic Export (flexible) Export requirements mandates that all exporting systems (between 31 and 200KVA) must have the capability to remotely update their export limits.</p>	<p>Energex and Ergon Energy have chosen the IEEE Standard for Smart Energy Profile Application Protocol IEEE 2030.5 -2018, as a first protocol to enable dynamic connections. This standard enables dynamic connection for the continued uptake of DER to maximize the utilization of customer and network assets.</p> <p>From 25 October 2023, an emergency backstop applies to all new, upgrading and replacement solar systems greater than 200 kW (large).</p>	<p>From 1 October 2024, an emergency backstop applies to all new, upgrading and replacement rooftop solar systems less than or equal to 200 kW (small and medium).</p>



2. SMA CSIP-AU Solutions

2.1 South Australia – Dynamic Export Limits

ONLY 1 INVERTER ON-SITE		1 x Zeco Marshall		Catch Control	Native Integration
		1 x SMA Energy Meter (EM-20)	1 x Zeco Smart Meter		1 x SMA Energy Meter (EM-20)
	SB1.5/2.5 VL-40				
	SB3.0 – 6.0 AV-41				
	STP 3.0 – 6.0 AV-40				
	STP 8.0 – 10.0 AV-40				
	STP15.0/20.0/25.0-50				
	CORE1 STP50-41				To be confirmed
	CORE2 STP1 10-60				To be confirmed

	1 x Zeco Marshall		Catchpower Relay	Native Integration
	1 x SMA Energy Meter (EM-20)	1 x Zeco Smart Meter		1 x SMA Energy Meter (EM-20)
Multiple Inverters On-site				To be confirmed



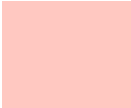
Yes, it is compatible



No, it is not compatible




































Work in progress






To be confirmed. Please email to SolarAcademy@sma-australia.com.au for future update



2.2 Queensland – Dynamic Connections

ONLY 1 INVERTER ON-SITE		1 x Zeco Marshall		Catch Control	Native Integration
		1 x SMA Energy Meter (EM-20)	1 x Zeco Smart Meter		1 x SMA Energy Meter (EM-20)
	SB1.5/2.5 VL-40				
	SB3.0 – 6.0 AV-41				
	STP 3.0 – 6.0 AV-40				
	STP 8.0 – 10.0 AV-40				
	STP15.0/20.0/25.0-50				
	CORE1 STP50-41				To be confirmed
	CORE2 STP110-60				To be confirmed

	1 x Zeco Marshall		Catchpower Relay	Native Integration
	1 x SMA Energy Meter (EM-20)	1 x Zeco Smart Meter		1 x SMA Energy Meter (EM-20)
Multiple Inverters On-site				To be confirmed



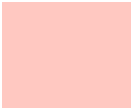
Yes, it is compatible



No, it is not compatible



Work in progress



To be confirmed. Please email to SolarAcademy@sma-australia.com.au for future update



2.3 Victoria – Emergency Backstop Mechanism









Our solution providers, Zeco and Catch, are working proactively on with 5 DNSPs for the compliance work.



3. Solution Provider & Products

3.1 Zeco and Products





Item	Marshall Lite	Marshall Blackbox without meter	Marshall Blackbox with meter
Zeco Product	 Marshall Lite	 Marshall Blackbox, CT is not included.	 Marshall blackbox with Zeco energy, CTs are not included.
Site Requirement	Internet Access	Internet Access	Internet Access
Installation Requirement	SMA energy meter is required for export control. Install Indoor.	SMA energy meter is required for export control. Can install outdoor.	Can install outdoor. CTs may be required.
Compatible SMA Inverters	SB3.0 – 6.0 AV-41 STP 3.0 – 10.0 AV-40	SB3.0 – 6.0 AV-41 STP 3.0 – 10.0 AV-40	STP15.0/20.0/25.0-50 CORE1 STP50-41 CORE2 STP1 10-60
No. of SMA supported Inverters ¹	Up to 4 x SMA inverters based on the existing sites	Up to 4 x SMA inverters based on the existing sites	Up to 4 x SMA inverters based on the existing sites
Commissioning and monitoring App	 Marshall App for commissioning and monitoring		
Commissioning and monitoring App download	<div> iOS</div> <div> Android</div>		
Functionality	Static Export Limit Dynamic Export Limit Monitoring Detailed Analysis Real-time data recording for important parameters (help with debugging) Remote Tunnel-in to SMA Inverter WebUI Load Shedding, e.g., heat pump, air conditioning Under development and will be available for Black Box with Meter Version (contactor control for solar soak and TOU operation)		
Configuration on SMA Inverters	Enable Modbus Server Enable the fallback settings		
Distribution Channel	Marshall is directly sold through Marshall Website or distributed by and Tradezone in Adelaide store. See the QR code, part number and product code when purchasing from Tradezone .		

¹ This is the max No. of supported SMA inverters observed from existing sites. Marshall may control more than 4 inverters.



	<div></div> <div>QR code to purchase Marshall Lite</div> <div>Part number: LITE-23-1 Product code 93421</div> <div>QR code to purchase Marshall Blackbox</div> <div>Part Number: BB-23-1 Product code: 93422</div>
Service and Support	<p>Zeco Marshall will be the first contact point for the installation and commissioning of Zeco Marshall gateway device, including assisting the setup on SMA inverters to allow the communication with Zeco.</p> <p>For any issues encountered during the commissioning and the installation stages, please contact Zeco helpline via 03 4050 9326 → option #2 or via email sma@zeco.au</p>
Reference as listed providers	<p>South Australia – Dynamix Export Limits: Compatible equipment - SA Power Networks</p> <p>Victoria – Emergency Backstop Mechanism: working in progress</p> <p>Queensland – Dynamic Connections: Dynamic Connections Compliant Providers (energex.com.au)</p>

3.2 Catch and Products

Item	Single-phase Catch Relay	
Catch Relay	<div></div> <div>Single-phase Catch Relay with CT</div>	
Site Requirement	Internet Access	
Installation Requirement	Install Catch in enclosed room and commission catch on-site via Bluetooth	
Compatible SMA Inverters		SB3.0-1AV-41 SB4.0-1AV-41 SB5.0-1AV-41 SB6.0-1AV-41
No. of SMA SB Inverters	Up to 6 x SB3/4/5/6 AV-41 can be controlled by Catch Relay	
Commissioning App	<div> Catch Power Configurator (for installer to complete commissioning)</div> <div> The Monocle (for end user to achieve monitoring)</div>	
Functionality	Static Export Limit Dynamic Export Limit Load Shedding, e.g., heat pump, air conditioning	
Configuration on SMA Inverters	Set Static IP on each inverter Enable Modbus Server Enable the fallback settings	
Distribution Channel	Catch Control is currently distributed by MMEM and Tradezone .	
Service and Support	For preliminary installation and basic commissioning, please contact SMA service team Monday to Friday on the service hotline +61 2 9491 4200 or create a case through SMA Online Service Center .	



	For advanced troubleshooting and warranty claim of Catch Control, please contact Catchpower at +61 2 5700 5717 or admin@catchpower.com.au .
Reference as listed providers	South Australia – Dynamix Export Limits: Compatible equipment - SA Power Networks Victoria – Emergency Backstop Mechanism: working in progress Queensland – Dynamic Connections: Dynamic Connections Compliant Providers (energex.com.au)