

MARSHALL



2024

DATA SHEET

MARSHALL BLACKBOX

Marshall BlackBox (BB-25-1)

Information about Marshall BlackBox



Product Overview

Chip	Broadcom BCM2711
Core architecture	64-bit ARM architecture
CPU	Quad core 64-bit ARM-Cortex A72 running at 1.5GHz
GPU	VideoCore VI 3D GPU
Memory	LPDDR4-3200 SDRAM (2GB or 4GB)
Operating System	Boots from Micro SD Card
	Linux operating system

Specification

Communication Interfaces

LAN 1x Gigabit Ethernet port

USB 2x USB2 Ports

2x USB3 Ports

Connectivity Ethernet/Wifi

Communications Protocols MODBUS

Data Login Specifications

Data Polling Rate Dynamic

External Power Supply (Included)

Input Voltage 230 VAC

Input Frequency 50 Hz

Output Voltage 5 VDC

Output Current 3A

Mechanical Parameters

Dimensions 260 × 200 × 110 mm

Mounting System DIN Rail

IP IP68

Environment Parameters

Operating Temperature 0C to 40C

Compliant Products

Inverters, Batteries, and EV Chargers

Marshall Blackbox supports dynamic export control and are compatible with the following inverter brands :-

- **South Australia** -
 - SAPN
- **Queensland** -
 - EnergyQ
- **Victoria** -
 - United Energy
 - Powercor
 - Citipower
 - AusNet
 - Jemena

Inverters	Series	Model number
Fronius Australia Pty Ltd	Tauro	Tauro 50-3-D (AS4777-2 2020)
		Tauro 50-3-P (AS4777-2 2020)
		Tauro Eco 50-3-D (AS4777-2 2020)
		Tauro Eco 50-3-P (AS4777-2 2020)
	Primo GEN24	Primo GEN24 3.0 (AS4777-2 2020)
		Primo GEN24 4.0 (AS4777-2 2020)
		Primo GEN24 5.0 (AS4777-2 2020)
		Primo GEN24 6.0 (AS4777-2 2020)
		Primo GEN24 10.0 (AS4777-2 2020)
		Primo GEN24 8.0 (AS4777-2 2020)
		Primo GEN24 4.6 (AS4777-2 2020)

Compliant Products

Inverters, Batteries, and EV Chargers

Inverters	Series	Model number	
Fronius Australia Pty Ltd	Primo GEN24 Plus	Primo GEN24 3.0 Plus (AS4777-2 2020)	
		Primo GEN24 4.0 Plus (AS4777-2 2020)	
		Primo GEN24 5.0 Plus (AS4777-2 2020)	
		Primo GEN24 6.0 Plus (AS4777-2 2020)	
		Primo GEN24 10.0 Plus (AS4777-2 2020)	
		Primo GEN24 8.0 Plus (AS4777-2 2020)	
			Primo GEN24 4.6 Plus (AS4777-2 2020)
		Primo	Primo 3.0-1 (AS4777-2 2020)
			Primo 3.5-1 (AS4777-2 2020)
		Primo 3.6-1 (AS4777-2 2020)	
		Primo 4.0-1 (AS4777-2 2020)	
		Primo 4.6-1 (AS4777-2 2020)	
		Primo 5.0-1 (AS4777-2 2020)	
		Primo 5.0-1 AUS (AS4777-2 2020)	
		Primo 5.0-1 SC (AS4777-2 2020)	

Compliant Products

Inverters, Batteries, and EV Chargers

Inverters	Series	Model number
Fronius Australia Pty Ltd	Primo	Primo 8.2-1 (AS4777-2 2020)
		Primo 6.0-1 (AS4777-2 2020)
	ECO	Eco 25.0-3-S (AS4777-2 2020)
		Eco 27.0-3-S (AS4777-2 2020)
	Symo	Symo 3.0-3-M (AS4777-2 2020)
		Symo 3.7-3-M (AS4777-2 2020)
		Symo 4.5-3-M (AS4777-2 2020)
		Symo 5.0-3-M (AS4777-2 2020)
		Symo 6.0-3-M (AS4777-2 2020)
		Symo 7.0-3-M (AS4777-2 2020)
		Symo 8.2-3-M (AS4777-2 2020)
		Symo 10.0-3-M (AS4777-2 2020)
		Symo 12.5-3-M (AS4777-2 2020)
	Symo 15.0-3-M (AS4777-2 2020)	

Compliant Products

Inverters, Batteries, and EV Chargers

Inverters	Series	Model number
Fronius Australia Pty Ltd	Symo	Symo 17.5-3-M (AS4777-2 2020)
		Symo 20.0-3-M (AS4777-2 2020)
	Symo Gen 24	Symo GEN24 3.0 (AS4777-2 2020)
		Symo GEN24 4.0 (AS4777-2 2020)
		Symo GEN24 5.0 (AS4777-2 2020)
		Symo GEN24 10.0 (AS4777-2 2020)
		Symo GEN24 6.0 (AS4777-2 2020)
		Symo GEN24 8.0 (AS4777-2 2020)
	Symo Gen 24 Plus	Symo GEN24 3.0 Plus (AS4777-2 2020)
		Symo GEN24 4.0 Plus (AS4777-2 2020)
		Symo GEN24 5.0 Plus (AS4777-2 2020)
		Symo GEN24 10.0 Plus (AS4777-2 2020)
		Symo GEN24 6.0 Plus (AS4777-2 2020)
		Symo GEN24 8.0 Plus (AS4777-2 2020)

Compliant Products

Inverters, Batteries, and EV Chargers

Inverters	Series	Model number
Fronius Australia Pty Ltd	Fronius Symo Advanced	Symo Advanced 10.0-3-M (AS4777-2 2020)
		Symo Advanced 12.5-3-M (AS4777-2 2020)
		Symo Advanced 15.0-3-M (AS4777-2 2020)
		Symo Advanced 17.5-3-M (AS4777-2 2020)
		Symo Advanced 20.0-3-M (AS4777-2 2020)
Hanwha Solutions Corporation	Q.HOME CORE	Q.VOLT H5S (AS4777-2 2020)
		Q.VOLT A5S (AS4777-2 2020)
SMA Australia Pty Ltd	Sunny Tripower	STP3.0-3AV-40 (AS4777-2 2020)
		STP5.0-3AV-40 (AS4777-2 2020)
		STP6.0-3AV-40 (AS4777-2 2020)
		STP4.0-3AV-40 (AS4777-2 2020)
		STP10.0-3AV-40 (AS4777-2 2020)
		STP8.0-3AV-40 (AS4777-2 2020)

Compliant Products

Inverters, Batteries, and EV Chargers

Inverters	Series	Model number
SMA Australia Pty Ltd	Sunny Boy	SB3.0-1AV-41 (AS4777-2 2020)
		SB4.0-1AV-41 (AS4777-2 2020)
		SB5.0-1AV-41 (AS4777-2 2020)
		SB6.0-1AV-41 (AS4777-2 2020)
SolarEdge Technologies Ltd	Three Phase Inverter	SE25K (AS4777-2 2020)
		SE30K (AS4777-2 2020)
		SE33.3K (AS4777-2 2020)
		SE100K (AS4777-2 2020)
		SE50K (AS4777-2 2020)
		SE66.6K (AS4777-2 2020)
		SE82.8K (AS4777-2 2020)
		SE10K (AS4777-2 2020)
		SE15K (AS4777-2 2020)
		SE17K (AS4777-2 2020)
SE5K (AS4777-2 2020)		

Compliant Products

Inverters, Batteries, and EV Chargers

Inverters	Series	Model number	
SolarEdge Technologies Ltd	Three Phase Inverter	SE7K (AS4777-2 2020)	
		SE8.25K (AS4777-2 2020)	
		SE10K-AUB (AS4777-2 2020)	
		SE5K-AUB (AS4777-2 2020)	
		SE7K-AUB (AS4777-2 2020)	
			SE8.25K-AUB (AS4777-2 2020)
		Single Phase Inverter	SE10000H-MM (AS4777-2 2020)
			SE3000H-MM (AS4777-2 2020)
			SE4000H-MM (AS4777-2 2020)
			SE5000H-MM (AS4777-2 2020)
	SE6000H-MM (AS4777-2 2020)		
		SE8250H-MM (AS4777-2 2020)	
		SE10000H (AS4777-2 2020)	
		SE3000H (AS4777-2 2020)	
		SE4000H (AS4777-2 2020)	

Compliant Products

Inverters, Batteries, and EV Chargers

Inverters	Series	Model number
Delta Electronics INC	HXE	H10E (AS4777-2 2020)
		H8E (AS4777-2 2020)
		H9E (AS4777-2 2020)
SolarEdge Technologies Ltd	Single Phase Inverter	SE5000H (AS4777-2 2020)
		SE6000H (AS4777-2 2020)
		SE8250H (AS4777-2 2020)

Batteries

Delta
BX6.3

EV Chargers

Delta	
Delta AC Max Smart	Delta AC Max Basic

Dynamic Export Control Approved Networks



SAPN Accredited



ENERGYQ Accredited



United Energy Accredited



Powercor Australia Accredited



CitiPower Accredited

AusNet

AusNet Accredited



SAPN Accredited

MARSHALL

www.datamarshall.au

03 4422 4455

marshall@zeco.au

ZECO Energy

6C/148 Chesterville Road,
Moorabbin
VIC Australia 3189