Introduction

This page is created to inform you on the details of NMEA 2000 PGNs that are transmitted by Victron CAN enabled products.

Switch Bank Control - PGN 127502 (0x1F20E) (deprecated)

This message is no longer transmitted and has been replaced by PGN 127501.
This applies to products with versions as specified in the table below or newer.

Product	Version
BlueSolar MPPT 150/70 & 150/85	v1.08
Lynx Shunt VE.Can	v1.00
Skylla-i	v1.08
VE.Direct to VE.Can\NMEA 2000	v1.06
VE.Bus to VE.Can\NMEA 2000	v0.12

Binary Status Report - PGN 127501 (0x1F20D)

This PGN is sent out by multiple products, however the details differ per product.

BlueSolar Charger 150/70 & 150/85

Signal	Meaning
Binary Device Bank Instance	Instance of the message, default value 0
Status 1 - Relay	“On” - The relay on the charger is active, the contact is closed
Status 2 - Alarm	“On” - There is an alarm condition
Status 3 - Low voltage	“On” - Battery voltage is too low
Status 4 - High voltage	“On” - Battery voltage is too high
Status 5 - Solar activity	“On” - Solar panel irradiated (can be used for day/night detection)
Status 6 ... 28	Not used, reports “No Action”

VE.Direct to VE.Can\NMEA 2000 interface

Signal	Meaning
Binary Device Bank Instance	Instance of the message, default value 0
Status 1 - Relay	“On” - The relay on the charger is active, the contact is closed
Status 2 - Alarm	“On” - There is an alarm condition
Status 3 – Low voltage*	“On” – Battery voltage is too low
Status 4 – High voltage*	“On” – Battery voltage is too high
Status 5 – Low SOC*	“On” – The Battery state of charge is too low
Status 6 – Low voltage 2*	“On” – Starter Battery voltage is too low
Status 7 – High voltage 2*	“On” – Starter Battery voltage is too high

Signal	Meaning
Status 8 ... 28	Not used, report as “No Action”

* BMV version 2.08 and higher

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