AUTONNIC

VAS45

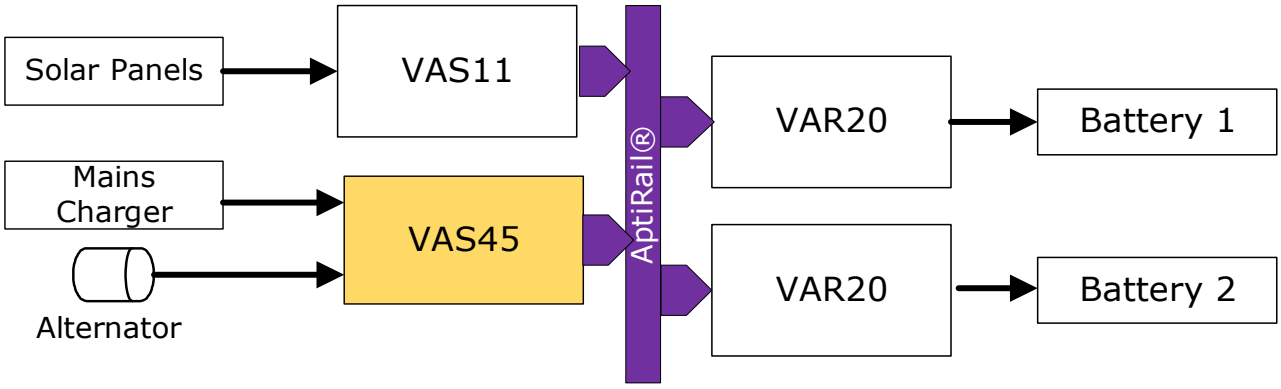
Source Manager for DC inputs

FEATURES

- Part of the Autonnic® AptiVolt® range
- Connects directly to AptiRail®
- Accepts up to 20A input total
- 2 input channels
- Disconnect surge protection
- **Boosts alternator output**
- **No alternator modification—just connect**
- AptiLoop® enabled for full monitoring
- Will deliver up to 260W
- Visual display of total source current
- LED status monitoring
- 'Battery Connected' input to alternator

APPLICATIONS

- Any Multi-Battery Multi-Source installation
- Yachts and Barges
- Motor-homes
- Coaches
- Emergency Vehicles
- Military



ABSOLUTE MAXIMUM RATINGS

PARAMETER	DESCRIPTION	NOTES	CONDITIONS	VALUE	UNIT
Θ_{STOR}	Storage Temp Range			-20 to +100	°C
Θ_{AMB}	Operating Temp Range			-20 to +50	°C
	Shock Resistance		Single impact	±10	G
	Vibration Resistance		60Hz, 10 Minutes	±5	G
V_{CC}	AptiRail Supply Voltage		At 25degC	25	Vdc

ORDER INFORMATION

PART	DESCRIPTION	SHIPPING WEIGHT
VAS45	A series alternator booster	300g

ELECTRICAL CHARACTERISTICS AT 20°C

PARAMETER	DESCRIPTION	NOTES	MIN	TYP	MAX	UNIT
V_{CC}	Input Voltage	At 20A	12	12.5	30	Vdc
Eff	Power conversion efficiency	At 20A input			98	mA
Vrail	AptiRail output	Priority levels	16.7	16.9	17.1	V
Iout	AptiRail current	At 16.7V			15.5	A
Ialt	Input to alternator 'start'	At13.5V			200	mA

Command Set

Debug
$APA,<address>,<data><CR> $APA,<address>,<data><CR>

Status
$APE,<address>,<data><CR> $APE,<status>*<checksum>

Fault code
$APF,<address><CR> $APF,<address>,<faultstatus>,<faultcode>*<checksum><CR>
Information
$API,<address><CR> $API,<address>,<device type>,<serial number>,<firmware version>,<hardware revision>*<checksum><CR>
Get data
$APQ,<address><CR> $APQ,<address>,<data0>,
data1>,.....,<datan>*<checksum><CR>
Set address
$APS,<current_address>,<new_address><CR> $APS,<new_address>,
<status>*<checksum><CR>

CONNECTIONS

Top: 1 Ground
2 Logic input—on/off
3 Status output

Main A 1 Power In+
2 Power In-

Aux A 1 Alternator Start In
2 Alternator Start Out

Main B 1 Power In+
2 Power In-

Aux B 1 Alternator Start In
2 Alternator Start Out

DIMENSIONS

138H x 74W x 80D
IP30
DIN RAIL (top hat) mounted

Autonnic Research
Woodrolfe Road
Tollesbury
Essex CM9 8SE UK
T +44-162-186-9460
F +44-162-186-8815

www.autonnic.com
theteam@autonnic.com