



**Carling Technologies®**

Innovative Designs. Powerful Solutions.

# ON/OFF HIGHWAY

SWITCHES, CONTROLS AND CIRCUIT PROTECTION










SELECTOR GUIDE

# INTRODUCTION

With years of design and manufacturing experience, Carling Technologies is the market leader in transportation application switches & control modules providing solutions to most all major OEMs. Carling's switches are widely used and the most recognizable switch brand in the industry with unmatched quality and aesthetics. By drawing upon over 90 years of design experience, Carling Technologies is also able to provide custom product solutions such as operator control modules and custom electronic controls, that are sure to meet the most stringent design requirements.

Use this selector guide document to learn more about the Carling Technologies switches and circuit protection products that is best suited for your On & Off-Highway solutions.

## CUSTOM SOLUTIONS

						
<b>Cruise Control</b>	<b>Horn Control</b>	<b>Light Control Module</b>	<b>HVAC Motor Control</b>	<b>Solid State Power Control</b>	<b>Control Interface</b>	<b>Multi-Function Displays</b>

If you can imagine it, Carling Technologies can create it. From a minor modification to an existing product to a co-development concept, no one can develop, design and manufacture a custom engineered product with greater ease, more efficiency, or more cost effectively than Carling Technologies. As a vertically integrated company with manufacturing facilities on three continents, Carling Technologies offers end-to-end product solutions, from concept and design to tooling, fabrication, and manufacturing. Carling's independence and dedication to customers ensure the flexibility to respond quickly to any opportunity or requirement. And Carling's network of employees in ISO/TS-registered manufacturing plants and sales offices stretches worldwide, guaranteeing that Carling experts are always nearby to provide you with answers and support whenever and wherever you need them.

# CHECK OUT THE NEW CONFIGURIT TOOL

[www.carlingtech.com/configurit](http://www.carlingtech.com/configurit)

Carling's CONFIGURIT tool to configure a complete and valid part number. This easy-to-use tool allows you to select the part features that best suit your application and it provides additional part number details such as datasheets, 3D CAD models and 2D sales drawings.

**PART NUMBER:**

V 1 B 2 S 0 0 B - G Z C 00 - 0 00

**Take Action**

Download  
3D CAD File

Download  
Datasheet

Get Sample

## ELECTRONIC SYSTEMS



**CKP-Series**



**VM-Series**

SAE J1939 CAN 2.0b Protocol	SAE J1939 CAN 2.0b Protocol	<b>Software</b>
12 individual loads	6 individual rockers, up to 12 total loads	<b>Circuitry</b>
8-32 V	12 or 24 V	<b>Operating Voltage</b>
1, 2, or 3 LED's per load	Dependent or Independent LED's	<b>Illumination</b>
IP69 Front Panel; IP68 Back Panel when connected	IP68 Front Panel; IP68 Back Panel when connected	<b>Sealing</b>
Deutsch DT-Series Connector	Deutsch DT-Series Connector	<b>Termination</b>
Custom or standard laser etched backlighting	Custom or standard laser etched backlighting	<b>Legends</b>

## CONTROLS



**V-Charger**



**LD Dimmer**



**LMR Mirror**



**LW Wiper**

1	multi-function	multi-function	multi-function	<b>Poles</b>
12V/24VDC	up to 10A 12VDC 5A 24VDC	up to 1A 14VDC .5A 28VDC	up to 8A 14VDC 4A 28VDC	<b>Ratings</b>
sealed spring-loaded access doors; curved or square	rocker, paddle	joystick	rocker, paddle	<b>Actuator</b>
.830" x 1.450" [21.08mm x 36.83mm] snap-in mount	.867" x 1.734" [22mm x 44mm] snap-in mount	.867" x 1.734" [22mm x 44mm] snap-in mount	.867" x 1.734" [22mm x 44mm] snap-in mount	<b>Mounting Hole Specifications</b>
.250 tabs	.250 tabs	wire leads with connector	.187 tabs	<b>Termination</b>
LED	LED	n/a	LED	<b>Illumination</b>
n/a	n/a	n/a	n/a	<b>Approvals</b>

\*Options and approvals shown may apply to specific construction combinations only, consult factory for clarification.  
 Manufacturer reserves the right to change product specifications without prior notice.

**SEALED ROCKERS**

				
<b>HR-Series</b>	<b>V-Series</b>	<b>W-Series</b>	<b>L-Series</b>	
1, 2	1, 2	1, 2	1, 2	<b>Poles</b>
IP68; 20A 12V	IP66/68; up to 20/15A 12/24VDC 15A 125VAC 10A 250VAC	IP68 including connector; up to 10A 24VDC	IP67; up to 15A 125VAC 10A 250VAC 20A 18VDC	<b>Ratings</b>
Laser-Etched Rocker	Rocker, Paddle, Locking Rocker	Bezel-Less Rocker, Paddle & Locking Rocker	Rocker, Paddle, Locking Rocker	<b>Actuator</b>
.830" x 1.450" [21.08mm x 36.83mm] snap-in mount	.830" x 1.450" [21.08mm x 36.83mm] snap-in mount	.830" x 1.450" [21.08mm x 36.83mm] snap-in mount	.867" x 1.734" [22mm x 44mm] snap-in mount	<b>Mounting Hole Specifications</b>
.110 tabs	.250 tabs solder lug wire leads	.110 tabs	.187 tab .250 tabs	<b>Termination</b>
LED	incandescent, LED, neon	LED	incandescent, LED	<b>Illumination</b>
n/a	UL, CSA	n/a	n/a	<b>Approvals</b>

**SEALED TOGGLE**
**SEALED ROTARY**
**FULL-SIZE ROCKER**
**ADDRESSABLE**

				
<b>ST-Series</b>	<b>V-Rotary</b>	<b>S-Series</b>	<b>N-Series</b>	
1, 2	1, 2	1, 2	1	<b>Poles</b>
10A 250VAC 15A 125VAC 16A 12/24VDC	up to 15A 24VDC 20A 12VDC	up to 10A 28VDC	.4VA 28VDC	<b>Ratings</b>
IP68, bat, paddle	IP67, ergonomic knob	bezel-less rocker	IP67, rocker, paddle	<b>Actuator</b>
.500" dia [12.7mm] bushing mount	.830" x 1.450" [21.08mm x 36.83mm] snap-in mount	.787" x 1.575" snap-in, keyed	.867" x 1.734" [22mm x 44mm] snap-in mount	<b>Mounting Hole Specifications</b>
.250 tabs Screw Terminals with cage clamps	solder lug .250 tabs wire leads	.110 Tabs	.187 tabs	<b>Termination</b>
n/a	incandescent, LED	LED	LED	<b>Illumination</b>
UL60079-15, cUL	pending	n/a	n/a	<b>Approvals</b>

\*Options and approvals shown may apply to specific construction combinations only, consult factory for clarification.

## BATTERY DISCONNECT

 <p><b>NEW</b></p> <p><b>BD-Series</b></p>	 <p><b>NEW</b></p> <p><b>BD1-Series</b></p>	
1	1	<b>Poles</b>
100-300 Amps 12VDC/24VDC	250 Amps 12VDC/24VDC	<b>Ratings</b>
ergonomic knob	ergonomic knob; removable option available	<b>Actuator</b>
M8 Bolt and Nut	M6/M7 Bolt and Nut	<b>Mounting Hole Specifications</b>
M10 Stud M14 Stud	M10 Stud; 19 and 27mm length	<b>Termination</b>

## THERMAL CIRCUIT PROTECTION

 <p><b>CMB-Series</b></p>	 <p><b>CLB-Series</b></p>	
1	1	<b>Poles</b>
pushbutton	pushbutton	<b>Actuator</b>
3 to 20A, 125-250VAC, 32VDC	3 to 60A, 125-250VAC, 32VDC	<b>Max Current &amp; Voltage Ratings</b>
2500A@32 VDC	2500A	<b>Max Interrupting Capacity</b>
series trip manual reset	series trip manual reset	<b>Available Circuits</b>
.250 tab with 90° bend screw terminal screw term with 90° bend	.250 tab .250 tab with 90° bend screw terminal screw term with 90° bend	<b>Termination</b>
threaded bushing, front panel snap-in	threaded bushing, front panel snap-in	<b>Mounting Method</b>
UL, CUL, CSA, TUV, CE, UL 1500 / ISO 8846 for ignition protection / marine	UL, CUL, CSA, TUV, CE, UL 1500 / ISO 8846 for ignition protection / marine	<b>Approvals</b>

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