

# crydom

## The New **EXPANDED** range of **S1 Generation 4** **PANEL MOUNT SOLID STATE RELAYS**

*Now including DC Outputs & IP20 covers*

# 4<sup>th</sup> gen

New housing with  
anti-rotation barriers

**CURRENT**



**NEW**

Improved IP00  
touch safe cover

**CURRENT**



**NEW**

Improved IP20  
safety cover

**CURRENT**



**NEW**

Improved "SEMS"  
screw & washer  
hardware

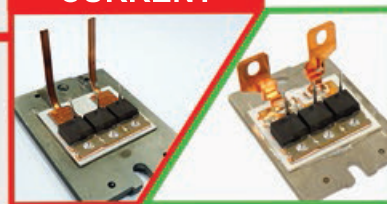
**CURRENT**



**NEW**

Improved thermal  
performance with DBC

**CURRENT**



**NEW**

Direct output  
"lead frame"  
termination

**CURRENT**



**NEW**

Stress & epoxy free  
construction

**CURRENT**



**NEW**

Improved  
performance

**CURRENT**



**NEW**



[www.crydom.com](http://www.crydom.com)

A brand of  
**CST**  
CUSTOM SENSORS & TECHNOLOGIES



### • IMPROVED THERMAL PERFORMANCE

The use of Direct Bond Copper (DBC) technology for insulators reduces thermal impedance by up to 30%, lowering output semiconductor temperatures & increasing reliability.

### • NEW MOUNTING OPTION WITH HEX STANDOFFS, SUFFIX “K”

For applications where customers mount the SSR to a Printed Circuit Board of vice versa.

### • IMPROVED CLEAR PLASTIC COVERS

New IP00 accessory safety cover (KS101), and optional integral true IP20 safety covers (standard on certain models).

### • IMPROVED CIRCUIT PERFORMANCE

DC output SSRs feature new high speed switching circuit for higher PWM frequency and lower power dissipation.

### • STRESS FREE AND “GREEN” EPOXY FREE CONSTRUCTION

New design allows safer disposal and 32% less weight than previous (DC output) models, lowering freight costs.

### • DIRECT COPPER “LEAD FRAME” TERMINATION

Input and Output connections now made with low power loss copper lead frames insuring lower power losses & operating temperatures.

### • IMPROVED “SEMS” SCREW & WASHER

Significantly improved for both input and output terminals with higher wire pull out strength (approximately 100 pounds for AWG 10 gauge wires) for single or dual wires, terminals or lugs.

### • REDESIGNED HOUSING & TOP COVER

The new S1 housing & top covers feature anti-rotation/wire capture plastic barriers and captive nuts for both input and output terminals. The new S1 housing is 18% thicker and more robust.

### • REGULATED CONTROL INPUTS

All S1 models feature current regulated inputs for maximum flexibility and lower power consumption.

# New Generation 4 SERIES



#### 1-DC & 1-DCL Series

- Solid State Relay with low impedance MOSFET output
- Ratings from 7 to 100 Amps and 100 to 500 VDC
- New “K” Option for PCB mounting for IP00 versions



#### CL Series

- Economical Solid State Relay with ratings of 5 and 10 Amps @ 24-280 VAC
- New “K” Option for PCB mounting for IP00 versions
- Optional IP20 safety cover



#### D06D Series

- Solid State Relay with low impedance MOSFET output
- Ratings from 60 to 100 Amps @ 60VDC
- New “K” Option for PCB mounting for IP00 versions



#### DC60 Series

- Economical bipolar transistor Solid State Relay
- Ratings from 3 to 7 Amps @ 60 VDC
- New “K” Option for PCB mounting for IP00 versions



#### Power Plus DC Series

- Solid State Relay with ratings up to 100 Amps @ 60 VDC, 100 Amps @ 100 VDC, 40 Amps @ 200 VDC, 20 Amps @ 400 VDC, and 60 Amps @ 500 VDC
- New “K” Option for PCB mounting for IP00 versions
- Optional IP20 safety cover



#### SSC Series

- Solid State Relay with ratings of 25 Amps @ 1000 VDC
- High voltage IGBT output
- New “K” Option for PCB mounting for IP00 versions



#### CW Series

- Heavy duty Solid State Relay with ratings 10 to 125 Amps @ 24-280 VAC or 48-660 VAC
- Improved IP20 safety cover
- Universal input available

Improved  
“K” Option  
for PCB Mounting

