NEW PRODUCTS

COSEL
COSEL CO.,Ltd

48Vin ISOLATED DC/DC CONVERTER
Output power : 10W - 30W
SFLS10 / SFLS15 / SFLS30

SFLS10   SFLS15   SFLS30
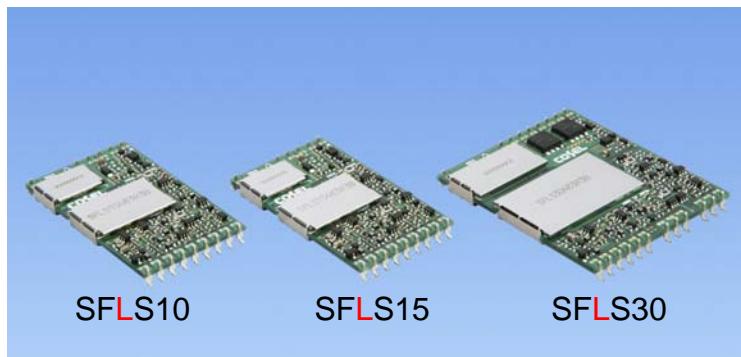
■Application
Computer and Communications equipment (the input source is 48Vdc)

■Features
· **Low profile**
 SFLS10/15:H=4.2max   (SFS10/15:H=7max)
 SFLS30   :H=4.4max   (SFS30   :H=8max)
· **Small footprint**
 18% smaller than SFS10/15
 SFLS10/15, replaceable from SFS series
· **Wide operating ambient temperature(natural convection cooling)**
 -40 to **+85**degC (Vin=DC36V - 60V)
 -40 to +80degC (Vin=DC60V - 76V)
· **Parallel operation is possible**
· **Input/output isolation : 1500Vdc**
· **Protection circuit and others**
 Over current protection (OCP),Low voltage protection (LVP) and Over voltage protection (OVP)
 Remote ON/OFF Provided (RC open : ON, short between RC and +Vin : OFF)
 Sequence control(New function)
 Ramp-rate control(New function)
 Delay time control(New function)

■Specifications

Item		Output voltage								
	Model	1.2V	1.5V	1.8V	2.0V	2.5V	3.3V	5.0V	5.2V	12V
Output current	SFLS10	3.5A	3.5A	3.0A	-	3.0A	3.0A	2.0A	-	-
	SFLS15	5.2A	5.2A	4.5A	4.5A	4.5A	4.5A	3.0A	3.0A	1.25A
	SFLS30	12A	11A	11A	-	10A	9A	6A	-	-
Input voltage	DC48V(36-76V)									
Size	SFLS10/15:38.7(W)×22.4(D)×4.2max(H) SFLS30:41.2(W)×36.2(D)×4.4max(H)									
Operating temperature	-40 to +85degC (with derating)									
Safety agency approvals	UL60950-1 / C-UL(CSA60950-1) / EN60950-1									

■Pin Configuration
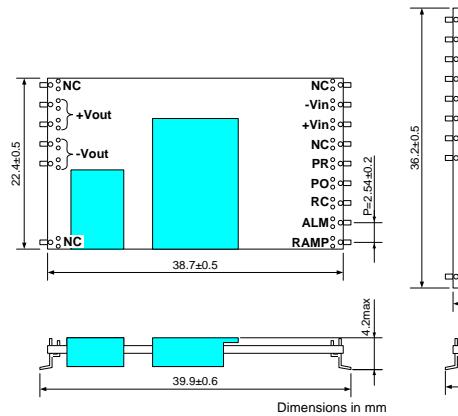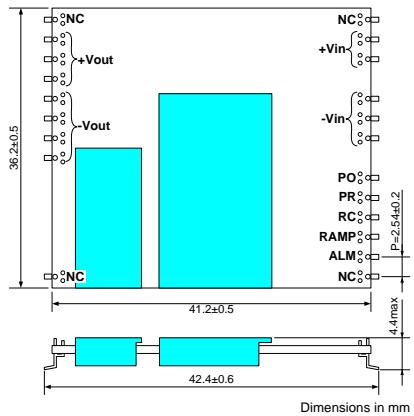
Pin Name	Function
+Vin	+DC input
-Vin	-DC input
RC	Remote ON/OFF
PO	Start in/out
PR	Power ready / Sequence control
ALM	Alarm
RAMP	Ramp-rate control
+Vout	+DC output
-Vout	-DC output
NC	Not connected / Adhesive dispensing

SFLS10/15   **SFLS30**

Dimensions in mm

■Connection

●Connection for Standard Use
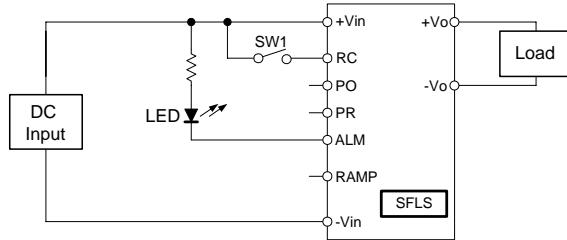
Connection for standard use

· Normal or abnormal operation of the unit can be monitored by using the ALM pin.

· When remote ON / OFF function is not use, please open-circuit between RC and +Vin or short-circuit between RC and -Vin.

●Parallel operation (Start in / out)
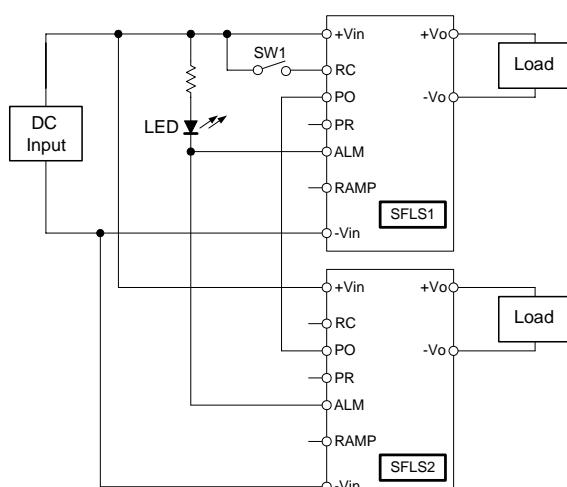
Examples of series operation

· By connecting PO pin, difference of start-up voltage and stop voltage can be prevented.

## ●Sequence control and Delay time control

C_{po} : Delay time control capacitor
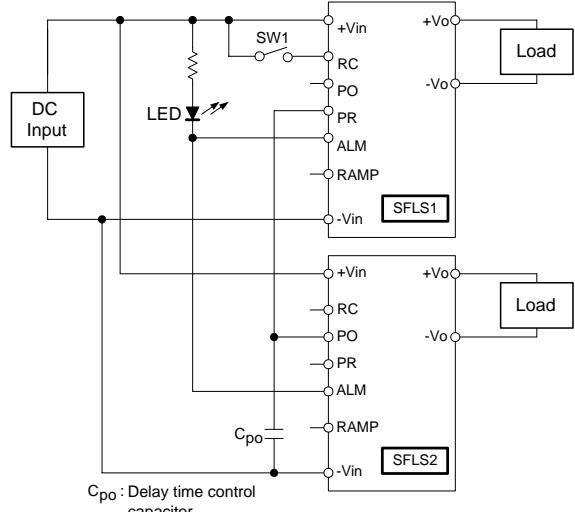
Example of parallel operation

· By connecting short-circuit between PR and PO pin, start-up time can be controlled.

●Ramp-rate control

C_{RAMP} small

C_{RAMP} large

Vo

[Y-axis:1V/div]
[X-axis:5msec/div]
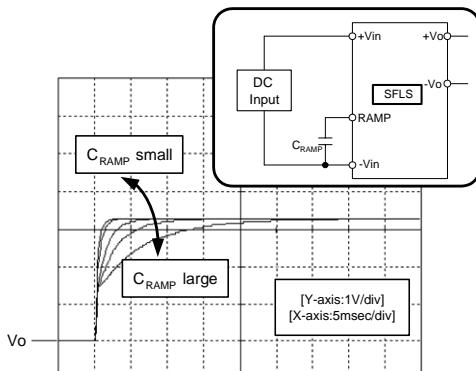
· By connecting external capacitor C_{RAMP} between RAMP and -Vin pin, ramp-rate can be controlled.