

RoHS
Compliant

SC series

SCHA10000T / SCDA10000T



Distributed Power Systems DC48V Front End Power Supply

10kW AC/DC 48V High Power Switching Power Supply

Complies with three-phase harmonic attenuator (IEC61000-3-12)

COSEL

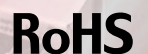
www.cosel.co.jp/en



SCHA10000T



SCDA10000T





SC series

Distributed Power Systems DC48V Front End Power Supply

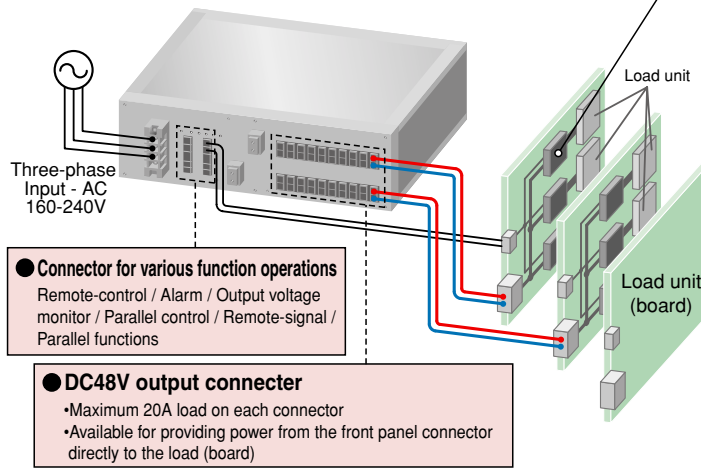
Product line-up

SC series

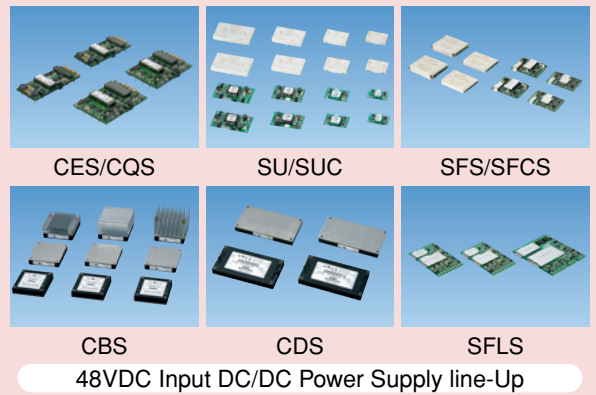
Appearances		RoHS Compliant		RoHS Compliant
	A difference item between SCHA1000T and SCDA1000T			
Model name	SCHA1000T-48 Wide front interface		SCDA1000T-48 Compact front interface	
Parallel operation	OK *Available by using bus bar attachment (Maximum 3 units)		Not available	
Number of output connectors	20 pcs.		14 pcs.	
Number of remote-signal connectors	4 pcs.		2 pcs.	
Dimensions (W×H×D)	459×150×320 [mm]		310.5×150×510 [mm]	
Weight	23kg max		20kg max	

Application example

● Distributed Power Systems DC48V Front End Power Supply

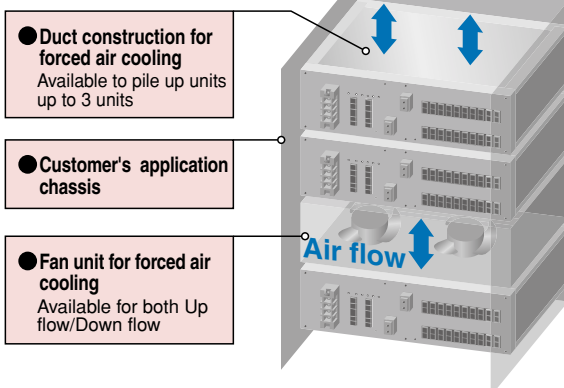


● 48VDC Input DC / DC Converter



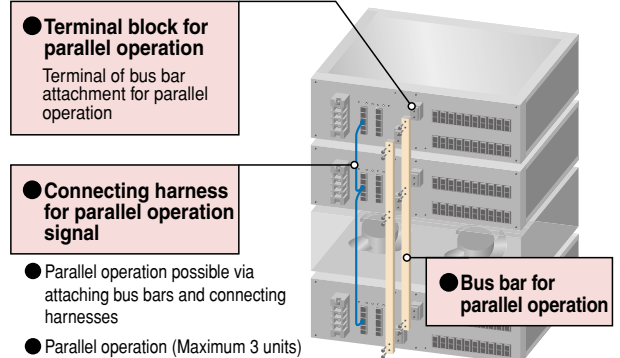
All input and output interfaces on front panel
Available for designing the best system layout

● Attached • Cooling method



Forced air cooling: Available for both Up flow /Down flow

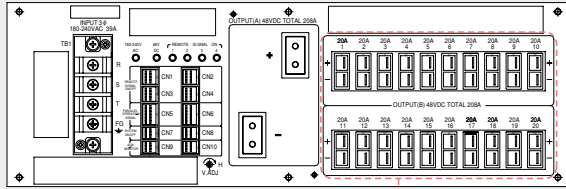
● Parallel operation (SHCA1000T)



Maximum 30kW available

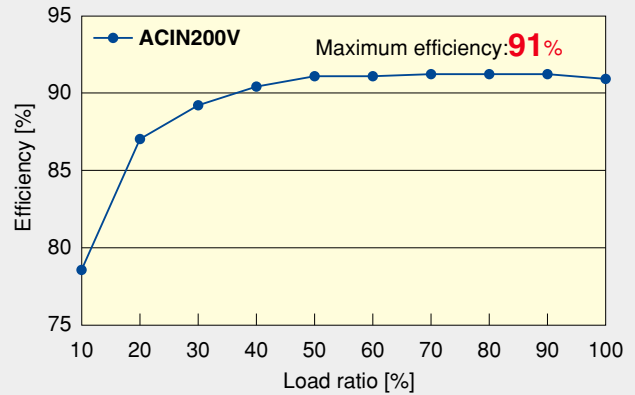
PR point / Feature

1. High power 10kW



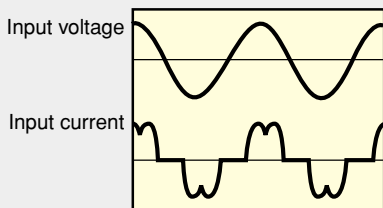
- Each connector can be drawn up to 20A if total output current is within rated current 208A.
- Built-in fuse for over load protection (rated 30A per each connector). If replacement needed contact Cosel directly. Do not replace by yourself.

2. High efficiency

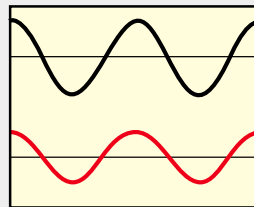


3. Harmonic attenuator / High power factor (0.99 typ)

Complies with harmonic attenuator as a three-phase input system



The previous method
Capacitor input type rectifier circuit
(Power factor: 0.9 typ.)



SC series
Power factor correction circuit for harmonic attenuator
(Power factor: 0.99 typ.)

Harmonic attenuator
(Complies with IEC61000-3-12)

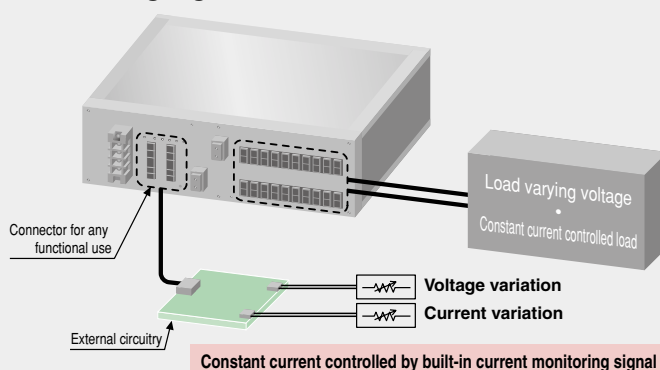
Qualified for the limit value of the short-circuit ratio "Rcse=33"

※ACIN 180-240V, Load ratio 15% and more.

4. Available to use function for output voltage adjustment and constant current (Optional)

Available to be adjusted output voltage approximately from 0V to 52.8V by connecting external circuit to connector for any functional use.

Constant current within approx 0A and 208A without shunt resistor by using the current monitoring signal function of the SC series.



Application

- Voltage variable • Constant current power supply
- Battery charger applications

Variable voltage range : 0 to 52.8V

Variable current range : 0 to 208A

※Optional function stopping low voltage protection.

※It's necessary for you to prepare an external circuitry.

※Adjustment range for output voltage and current is decided by external circuit.

(For more information, please contact Cosel.)

Other Functions & Features

● Complies with SEMI F47

● Major safety standards approved

(UL60950-1/C-UL(CSA60950-1)/EN60950-1)
/Complies with CE mark

● Various function provided

- Remote-control :48vdc output inhibit.
- Alarm :Protection circuit available for monitor open phase operation and output voltage drop.
- Output voltage monitor :Available to monitor the value of DC48V output.
- Parallel control :Available for Multiple power supplies the ability for simultaneously starting and stopping.
- Remote-signal :Output Signal for start timing of DC/DC converter.
- Parallel operation :Possible up to 3 maximum (SCHA10000T).