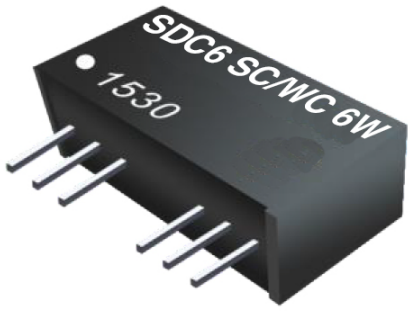
SDC6-**SC/WC** Series

6Watt DC/DC Power Supply



SINGLE & DUAL Output
4:1 EXTRA Wide input range VDC 9VDC ~72VDC
Isolation 1500VDC
Efficiency up to 88%
Wide operating temperature from -40°C to +85°C
EMI class A without external circuit
No minimum load required- Soft Start
Meet EN55032:2012 + AC:2013 (CLASS B),
Available Inputs Voltage (nominal):
24VDC Nom (DC 9~36V)
48 VDC Nom (DC 18 ~ 72V)
-SDC6-22WC -22: 12VDC,12VDC
-SDC6-23WC -23: 15V, 15V
3 Year Warranty

RoHS

SIP 8 PACKAGE

		UNIT	SDC6-**SC24	SDC6-**SC48			
INPUT	**Nom Voltage (Range)**	VDC	DC 24V (9~36)	DC 48V (18~72)			
	Current Typ.	mA	298~255	127~149			

			SDC6-3.3SC24	SDC6-5SC24	SDC6-12SC24	SDC6-15SC24	SDC6-24SC24	
OUTPUT	**Nominal Voltage**	VDC	3.3	5	12	15	24	
	OUTPUT Voltage Tolerance		+/-2%	+/-2%	+/-2%	+/-2%	+/-2%	
	Current	A	1.5	1.2	.5	.4	.25	
	Total Pwr	W	4.95	6	6	6	6	
	Efficiency	%	81	84	87	88	87	
	Line Regulation	%	+/- 0.5%	+/- 0.5%	+/- 0.5%	+/- 0.5%	+/- 0.5%	
	Load Regulation	%	+/- 0.5%	+/- 0.5%	+/- 0.5%	+/- 0.5%	+/- 0.5%	
	Switching Frequency	KHZ	400	400	400	400	400	
	Ripple Noise	BW=DC 20MHz mVp-p	100	100	1% of Vout	1% of Vout	1% of Vout	
	Transient res. recovery time 25% load step change	µs	250	250	250	250	250	
	SHORT CIRCUIT PROTECTION		AUTO RECOVERY	AUTO RECOVERY	AUTO RECOVERY	AUTO RECOVERY	AUTO RECOVERY	
	Cooling		Convection					

			SDC6-3.3SC48	SDC6-5SC48	SDC6-12SC48	SDC6-15SC48	SDC6-24SC48	
OUTPUT	**Nominal Voltage**	VDC	3.3	5	12	15	24	
	OUTPUT Voltage Tolerance		+/-2%	+/-2%	+/-2%	+/-2%	+/-2%	

	Current	A	1.5	1.2	.5	.4	.25	
	Total Pwr	W	4.95	6	6	6	6	
	Efficiency	%	81	84	87	87	87	
	Line Regulation	%	+/- 0.5%	+/- 0.5%	+/- 0.5%	+/- 0.5%	+/- 0.5%	
	Load Regulation	%	+/- 0.5%	+/- 0.5%	+/- 0.5%	+/- 0.5%	+/- 0.5%	
	Switching Frequency	KHZ	400	400	400	400	400	
	Ripple Noise	BW=DC 20MHz mVp-p	100	100	1% of Vout	1% of Vout	1% of Vout	
	Transient res. recovery time **25% load step change**	µs	250	250	250	250	250	
	SHORT CIRCUIT PROTECTION		AUTO RECOVERY	AUTO RECOVERY	AUTO RECOVERY	AUTO RECOVERY	AUTO RECOVERY	
	Cooling		Convection					

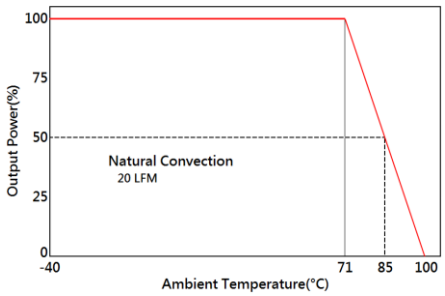
			SDC6-22WC24	SDC6-23WC24	SDC6-22WC48	SDC6-23WC48		
OUTPUT	**Nominal Voltage**	VDC	+/-12	+/-15	+/-12	+/-15		
	OUTPUT Voltage ACCU.		+/-2%	+/-2%	+/-2%	+/-2%		
	Current	A	+/-0.25	+/-0.2	+/-0.25	+/-0.2		
	Total Pwr	W	6	6	6	6		
	Efficiency	%	87	87	87	87		
	Line Regulation	%	+/- 0.5%	+/- 0.5%	+/- 0.5%	+/- 0.5%		
	Load Regulation	%	+/- 5%	+/- 5%	+/- 5%	+/- 5%		
	Switching Frequency	KHZ	500	500	500	500		
	Ripple Noise	BW=DC 20MHz mVp-p	1% of Vout	1% of Vout	1% of Vout	1% of Vout		
	Transient res. recovery time **25% load step change**	µs	250	250	250	250		
	SHORT CIRCUIT PROTECTION		AUTO RECOVERY	AUTO RECOVERY	AUTO RECOVERY	AUTO RECOVERY		
	Cooling		Convection					

ISOLATION	**Voltage**		1500VDC
	Resistance		Min. 1000MΩ (500VDC)
Environment	**Operating temp**		-40 ~ +85
	Storage		-55 ~ +125
	Temp. COEFFICIENT		+/-0.02% /C MAX
Dimension	**WxHxL**	**mm/g**	21.8X 9.2X 11.1/ 4.5 g
	Case Material **Potting Material**		DAP- Case Temp90C

		UL94V-0 Package Material HUMIDITY 95% RH
SAFETY	**EMS**	EMC Standard of EMS EN55024:2010
	EMC	EMC Standard of EMI EN55032:2012+AC:2013 (Class B)

EFFICIENCY CURVE (per input voltage)

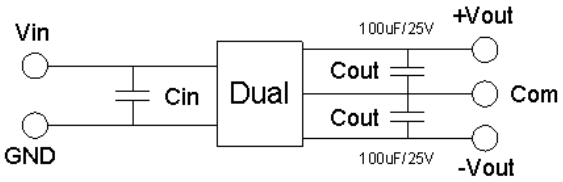
SDC6



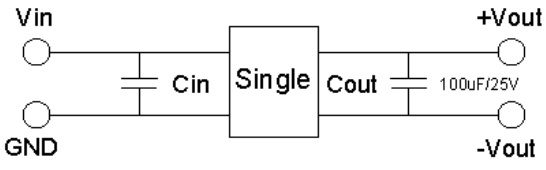
PIN OUTPUT

PIN Connection

Pin	1	2	3	6	7	8
Single	-Vin	+Vin	Remote ON/OFF	+Vout	-Vout	NC
Dual	-Vin	+Vin	Remote ON/OFF	+Vout	COM	-Vout



24V & 48V :Cin 10uF,100V



24V&48V:Cin 10uF,100V

DIMENSIONAL DRAWING (mm)