

Features

- Efficiency up to 86%
- 1500VDC Isolation
- Singl/Double output
- Continous short circuit protection
- Wide input voltage range
- Wide temperature -40 to 85
- Low ripple and noise
- Short circuit protection



Model Selection Guide

Order Code	Vin(V)		Output		Recommend capacitive(uF)	Efficiency(%) (Typ)
	Nominal	Range	Vo(V)	Io(mA)		
DD40-12S05	12	9-18	5	8000	2200	90
DD40-12S12 *			12	3333	1000	91
DD40-12S15 *			15	2667	1000	92
DD40-12S24 *			24	1667	680	92
DD40-24S05	24	18-36	5	8000	2200	90
DD40-24S12 *			12	3333	1000	91
DD40-24S15 *			15	2667	1000	92
DD40-24S24 *			24	1667	680	92
DD40-48S05	48	36-72	5	8000	2200	90
DD40-48S12 *			12	3333	1000	91
DD40-48S15 *			15	2667	1000	92
DD40-48S24 *			24	1667	680	93

NOTE: With "*" product is being developed

Input Characteristics

Parameter	Condition	Min	Typ	Max	Units
Input Surge Voltage (1 sec. Max.)	12V Input Models	-0.7	--	25	VDC
	24V Input Models	-0.7	--	50	
	48V Input Models	-0.7	--	90	
	110V Input Models	-0.7	--	190	
Input Filter Type	All Models	Internal Capacitor			

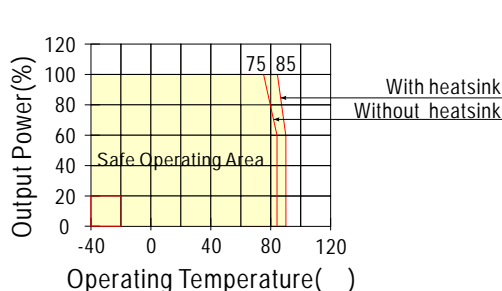
Output Characteristics

Parameter	Condition	Min	Typ	Max	Units
Output Voltage Accuracy	+Vo	--	1%	--	%
	-Vo	--	2%	3%	%
Load regulation	10% ~ 100% load	--	±0.5	±1	%
Line regulation	Vin(Min-Max)	±0.1	--	±0.5	%
Ripple and noise	BW=DC to 20MHz	--	50	100	mVp-p
Switching frequency	Full load, nominal input	--	300	400	KHz
Transient Recovery Time	25% Load Step Change	--	--	500	uS
Short circuit Protection	Continuous, Automatic Recovery				

General Characteristics

Parameter	Condition	Min	Typ	Max	Units
Operating Temperature	All output types	-40	--	+85	
Storage		-55	--	+125	
Storage humidity		--	--	+95	%
Cooling	Free air convection	--	--	--	
Isolation voltage	2mA 1minute	1000	--	--	VDC
Isolation resistance	500VDC	1000	--	--	M
MTBF	2 × 10 ⁵				K hours
Case material				Metal	

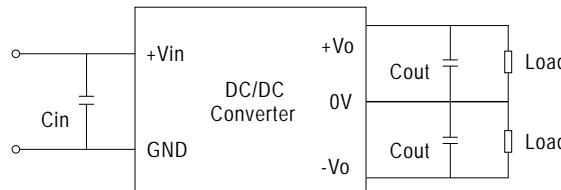
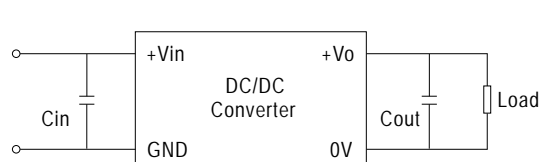
Temperature Derating Graph Curve



Design & Feature Considerations

1. Input/Output Ripple Reduction

Reduce output ripple, it is recommended to use capacitors at the input/output. It is recommended to use 10uF~100uF capacitors at the input; 47~220uF capacitors at the output.



2. Overload Protection

The products provide protection against overload, the unit is equipped with internal current limiting circuitry .

3. Remote On/Off

To turn the power module off
Connect REM and -Vin, 0V < Vrem < 1 v, Irem < 1mA;

- To turn the power module on
1) Connect REM and +Vin, 30V > Vrem > 5V;
2) REM pin is no connected.

4. Heat sinks

Make sure the products work well, recommend to use heat sinks. Products will not be supplied with heat sinks.

Note

1. All the specifications typical at Ta=+25 resistive load, nominal input voltage and rated output current unless otherwise noted.
2. Operation under no-load conditions will not damage these modules; however they may not meet all specifications listed.
3. Ripple & Noise measurement bandwidth is 0-20MHz.
3. Other input and output voltage may be available, please
4. All DC/DC converters should be externally fused at the front end for protection.
5. Specifications subject to change without notice

Mechanical Dimension & Pin Connections

