

Features

- Efficiency up to 85%
- 1500VDC Isolation
- Singl/Double output
- Continuous 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)		
DDM15-12S05	12	9-18	5	3000	470	80
DDM15-12S12			12	1250	470	84
DDM15-12S15			15	1000	330	85
DDM15-12S24			24	625	330	85
DDM15-12D05			±5	±1500	220	81
DDM15-12D12			±12	±625	220	83
DDM15-12D15			±15	±500	150	85
DDM(F)15-24S05	24	18-36 (F)9-36	5	3000	470	80
DDM(F)15-24S12			12	1250	470	84
DDM(F)15-24S15			15	1000	330	85
DDM(F)15-24S24			24	625	330	85
DDM(F)15-24D05			±5	±1500	220	81
DDM(F)15-24D12			±12	±625	220	83
DDM(F)15-24D15			±15	±500	150	84
DDM(F)15-48S05	48	36-72 (F)18-72	5	3000	470	81
DDM(F)15-48S12			12	1250	470	83
DDM(F)15-48S15			15	1000	330	84
DDM(F)15-48S24			24	625	330	84
DDM(F)15-48D05			±5	±1500	220	81
DDM(F)15-48D12			±12	±625	220	83
DDM(F)15-48D15			±15	±500	150	83
DDM15-110S05	110	70-160	5	3000	470	81
DDM15-110S12			12	1250	470	83
DDM15-110S15			15	1000	330	85
DDM15-110S24			24	625	330	85
DDM15-110D05			±5	±1500	220	82
DDM15-110D12			±12	±625	220	83

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			

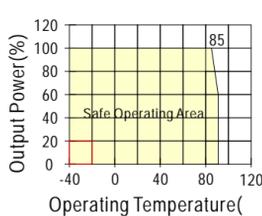
Output Characteristics

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			

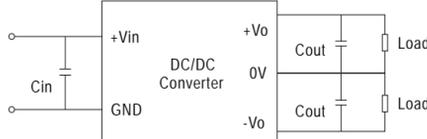
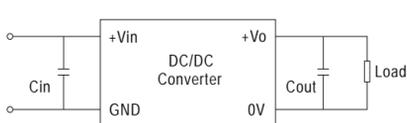
Temperature Derating Graph Curve



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 .

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.
- 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

