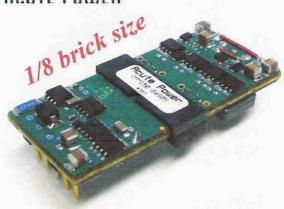


150 Watt DC-DC

QMM150



<u>Dual</u> independently regulated & Isolated output Types <u>Single</u> outputs (2X Io) Interleaved ripple canceling operation

0.9V To 5.0V Outputs
Output Trim Vo2 & Singles
Greater Than 91% Efficiency

Remote On/Off (each channel)

Overvoltage Protection

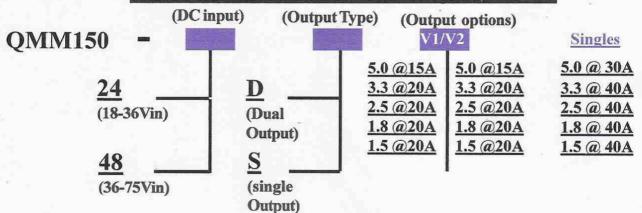
-40C To +105C Operation

Short Circuit Protection

External Sync Pin

The QMM150 DC DC converter is a high density, dual phase (interleaved) constructed design. This product is a highly flexible / configured design, where as the Dual outputs are independently regulated and isolated meaning they can be configure as independent, dual positive, +/- dual or series (stacked). The single output simply configures the two like outputs for twice the output current of each channel. The QMM150 has additional flexibility by utilizing our paralleling output modules that allow multiple additional outputs all running at the same frequency without the need for external complex circuitry.

Model Number Configuration



Modifications and Customs available

Preliminary



QMM150 Watt Eighth-brick DC-DC SERIES

NEW PRODUCT



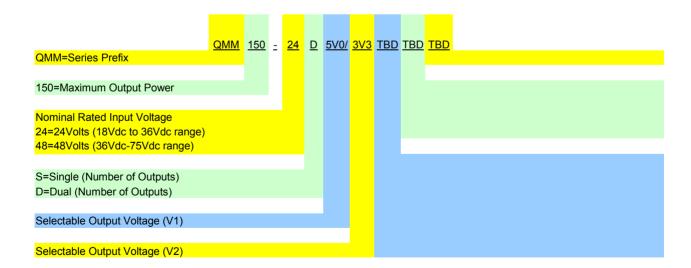
- Dual independently regulated and Isolated Output Types
- Single Outputs (2XIo)/channel
- Interleaved ripple canceling operation
- 0.9V to 5.0V Outputs
- Output Trim V02 & Singles
- Greater than 91% Efficiency
- Remote On/Off (each channel)
- Overvoltage Protection
- -40C to +105 Operation
- Basic Insulation system
- Short Circuit Protection
- External Sync Pin

1/8 brick size



The QMM150 converter is a high density, dual phase (interleaved) constructed design. This product is a highly flexible/configured design, where as the Dual outputs are independently regulated and isolated, meaning they can be configured as an independent, dual positive, +/- dual or series (stacked). The single output simply configures the two like outputs for twice the output current of each channel. The QMM 150 has additional flexibility by utilizing our paralleling output modules that allow multiple additional outputs all running at the same frequency without the need for external complex circuitry.

Example Part Number Configuration: QMM150-24D5V0/3v3 or QMM150-24D3v3/5V0



QMM150 Watt Eighth-brick DC-DC SERIES

NEW PRODUCT Eighth-brick size

Input Specifications			
Input Voltage Range Note (3)	2:1		
	18-36 Vdc (24V Models)		
	36-75 Vdc (48V Models)		
Input filter	LC Type		
Under Voltage Lockout	16.5V (24V Models)		
	32V (48V Models)		
Remote: ON	+5V or open, Ref (-)Vin		
Remote: OFF	+0.7V, Ref (-)Vin		
Conducted noise	EN55022, level A (Note 5)		

General Specifications		
Efficiency	See Model Graph	
Isolation Voltage	2250Vdc I/P to Output's 500 Vdc O/P1 to O/P2 (Floating configuration)	
Isolation Resistance	30M	
Switching Frequency	400 Khz	

Output Specifications			
Output Power	150W Continuous (Max)		
Output Voltage/current	See Model table		
Output Setting Accuracy Vo1	+/-1% typ., +/-1.5% max.		
Load Variation Vo1 (FL-NL)	+/-0.5%		
Line Regulation	+/-0.5% (Vo1 & Vo2)		
Total Error Band Vo1 Vo2	+/-3% Line/Load/Temp +/-3% Line/Load/Temp		
Ripple & Noise(20Mhz BW)	50mV(Vo1 &Vo2)20mV Single		
Transient Response FL- 1/2L	2% Deviation, 200uS		
Temp Coefficient	+/01%/c		
Short circuit Protection	Indefinite, Modulated, Automatic Recovery		
Over Voltage Protection	Clamp Type		
Overshoot	None		

	SINGLE	ОИТРИТ			
	SINGLE	OUTFUT			
Output Voltage (1)	SINGLE	Efficiency (Typ) *	Model Number		
24Vin Models					
1.5V	40A	88.5%	QMM150-24S1V5		
1.8V	40A	90.0%	QMM150-24S1V8		
2.5V	40A	89.5%	QMM150-24S2V5		
3.3V	40A	90.5%	QMM150-24S3V3		
5.0V	30A	91.5%	QMM150-24S5V0		
48Vin Models					
1.5V	40A	89.5%	QMM150-48S1V5		
1.8V	40A	90.5%	QMM150-48S1V8		
2.5V	40A	90.0%	QMM150-48S2V5		
3.3V	40A	91.0%	QMM150-48S3V3		
5.0V	30A	92.0%	QMM150-48S5V0		

^{*}Dual outputs will have an sum efficiency of the two outputs Efficiencies are @ 75% load / output

