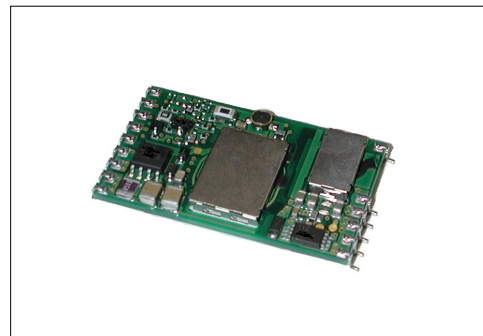


MPD6D10_S Series Isolated 10W DC-DC Converter for Telecomm Equipment

■ Features

- No Derating (@ 40LFM Natural Convection Air Flow)
- Smallest and Lowest Profile in the Industry
- Surface Mount
- Wide Input Voltage Range (36 to 75V)
- Current Sharing (Up to 10 devices in Parallel Operation)
- Power Sequencing
- On/Off Control Function
- Wide Operating Temperature Range (-40 to +85 degreeC)
- Input-Output Isolation (1.5kVdc for 1 minute)
- Over Current Limit Inception
- Low Voltage Protection
- Over Voltage Protection
- Alarm Output
- EMI Compliance with CISPR22, Class A
- Multiple Sources Available



■ General Specifications

Item		Model	MPD6D10_S Series								
			101	102	103	104	105	106	107	108	109
Input	Nominal Input Voltage	48V									
	Input Voltage Range	36 to 75V									
	Operating Condition	36 to 60V(Natural air Convection 40LFM [0.2m/s]) 36 to 75V(Forced air Convection 100LFM [0.5m/s])									
	Turn-On Input Voltage	32 to 36V									
	Turn-On/Off Hysteresis (Min.)	2V									
Output	Output Voltage	12V	1.2V	1.5V	1.8V	2.0V	2.5V	3.3V	5.0V	5.2V	
	Output Voltage Tolerance	+5%, -3%									
	Nominal Output Current	0.8A	3.5A		3A			2A			
	Over Current Limit Inception (Min.)	0.82A	3.6A		3.1A			2.06A			
	Low Voltage Protection (Max.)	90% of Nominal Output Voltage									
	Efficiency (Typ.) Note 1	88%	79%	82%	86%		88%	89%			
	Output Ripple and Noise (Max.)	50mVp-p with f _{BW} =100MHz									
	Remote On/Off control	On: RC Pin Connected to -Vin or Open OFF: RC Pin Connected to +Vin									
Isolation	Input-Output (Min.)	1,500Vdc, 1 minute									
Environment	Operation Ambient Temperature	-40 to 85°C									
	Operating Humidity	20 to 85% No Condensation									
	Storage Ambient Temperature	-45 to 90°C									
	Storage Humidity	10 to 95% No Condensation									

Note 1: Vin=48V, Iout=Nominal Output Current

▲Note • Please read rating and ▲CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.

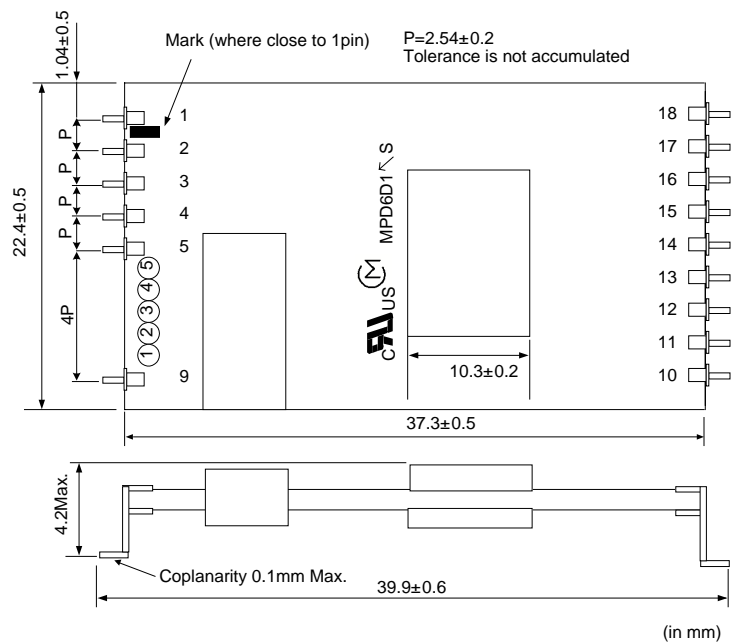
• This catalog has only typical specifications because there is no space for detailed specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.



Murata Manufacturing Co., Ltd.

MPD6D10_S Series Isolated 10W DC-DC Converter for Telecomm Equipment

■ Appearance and Dimensions



Pin Number and Function

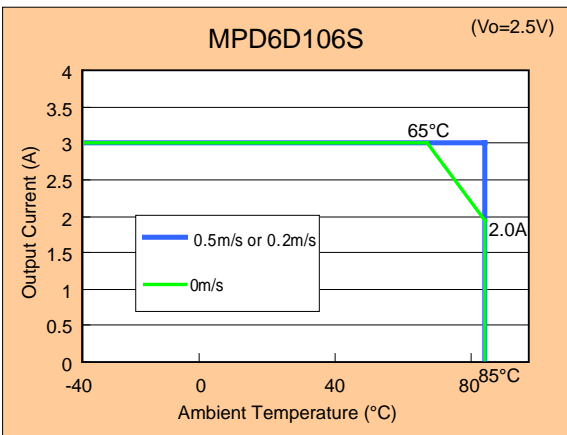
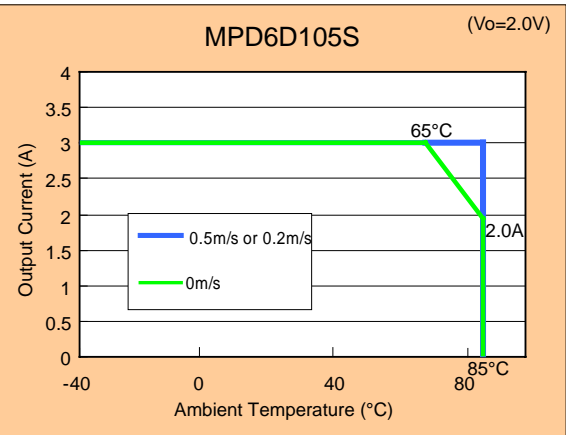
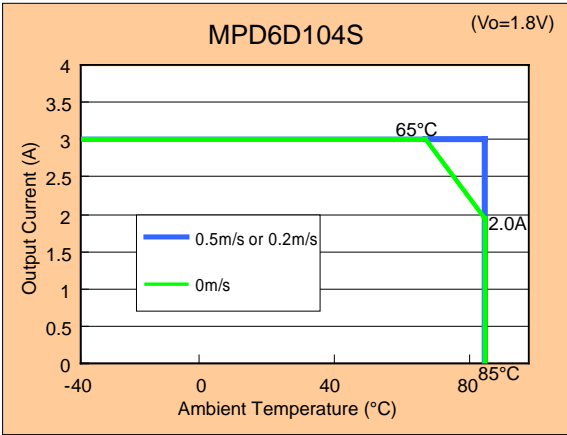
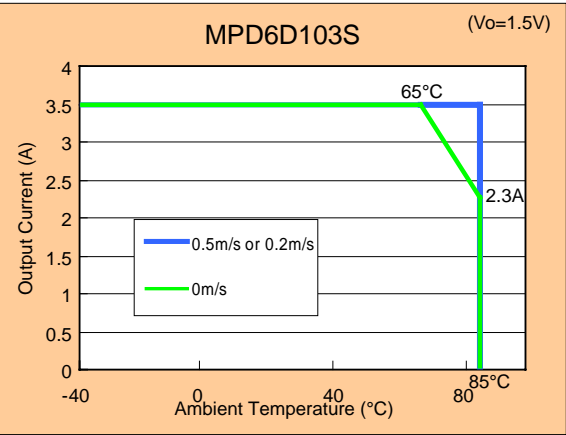
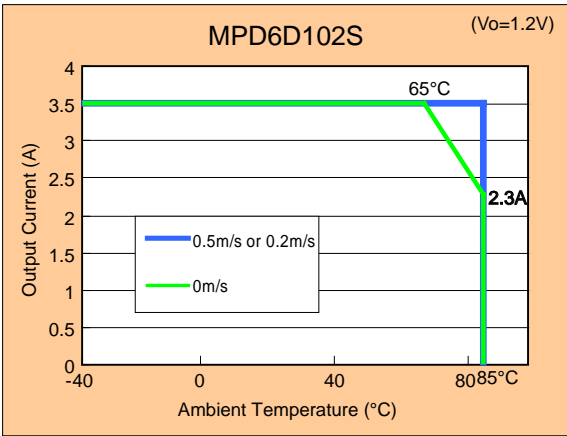
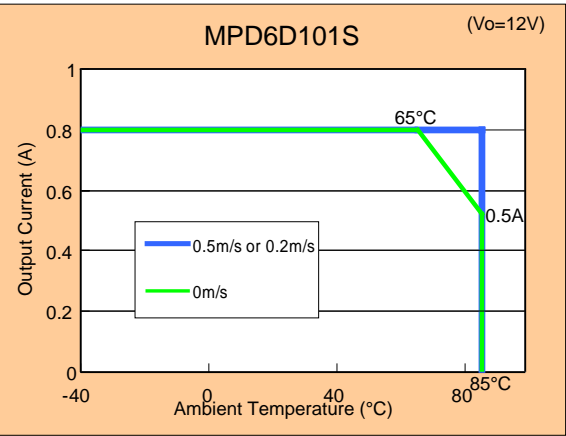
Pin No.	Pin Symbol	Function
9,10,14	NC	Not Connected
1,2,3	+Vout	+Output
4,5	-Vout	-Output
11	ALM	Alarm Note 1
12	RC	Remote On/Off Control
13	PO	Parallel Operation Note 2
15,16	+Vin	+ Input
17,18	-Vin	- Input

Note 1: Any DC-DC Converter halted abnormally forces all DC-DC Converters, connected via ALM pins for parallel and/or multiple operation, to stop their operation.

Note 2: The start-up of DC-DC Converters connected via PO pins may be synchronized for parallel and/or multiple operation (Power Sequencing)

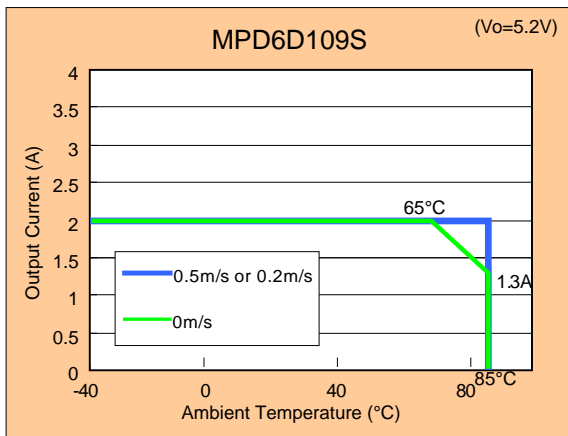
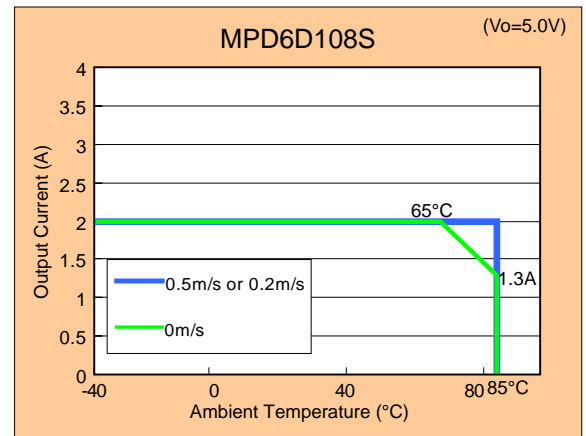
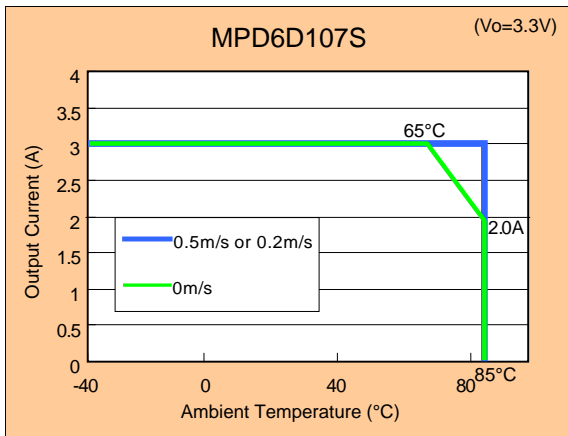
MPD6D10_S Series Isolated 10W DC-DC Converter for Telecomm Equipment

Typical Power Derating



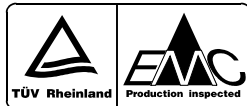
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MPD6D10_S Series Isolated 10W DC-DC Converter for Telecomm Equipment



■ Safety

UL60950 recognized, CE marking (LVD and EMC directive)



Compliance of EMC directive is confirmed by TUV Rheinland Japan

Product specification in this catalog are as of July 2003, and are subject to change or discontinuance without notice.

Please confirm the specification before ordering any product.

If there are any questions, please contact our sales representatives or engineers.

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