Features

- Lowest Profile in the Industry (5.5mm Max.)
- High Efficiency (Up to 89%)
- Wide Input Voltage Range (36 to 75V)
- Trim Function Vout Range (-20 to +10% of Nominal)
- Input-Output Isolation (1.5kVdc)
- Open Frame (Forced Air Convection Cooling)
- Wide Operating Ambient Temp. (-40 to +85 degreeC)
- Over Current Protection
- Over Voltage Protection
- Over Temperature Protection
- On/Off Control (Negative Logic)
- Output Voltage Remote Sensing
- UL60950 Recognized
- Protection Function Latch Method

Electrical Specifications



Model	MPDKNS Series			
Item	004	006	007	008
Input Voltage Range		48V (36	6 to 75V)	
Nominal Output Voltage	1.8V	2.5V	3.3V	5V
Nominal Output Current	15A 10.		10A	
Nominal Output Wattage	27W	38W	50W	50W
Output Voltage Accuracy	$\pm 3\%$ (Input Voltage Range 36 to 75V, Operation Temperature Range -40 to 85 $^\circ\text{C})$			
Efficiency (Typ.) Note 1	85%	87%	88%	89%
Output Ripple Noise Voltage (Max.)	100mVp-p (f _{BW} = 20MHz)			
Output Voltage Variable Range	-20 to +10%			
Protection	Over Voltage, Over Current, Over Temperature Protection			
Over Current Protection Value		103 to	160%	
Over Voltage Protection Value		120 to	140%	
Over Heat Protection Value			-	
Remote On/Off	Negative Logic			
Input-Output Isolation Voltage	1,500Vdc (1 minute)			
Safety Standard	UL60950 (US and Canada)			
Operation Temperature and Humidity Range	-40 to 85°C, 20 to 85% (No Condensation, Power Derating)			
Storage Temperature and Humidity Range	-45 to 90°C, 10 to 95% (No Condensation)			

Note 1: Nominal Input Voltage, Nominal Output Current

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Dimensions



Pin Number and Function

Pin No.	Pin Symbol	Function	
1	Vin(+)	(+)Positive Input Voltage	
2	On/Off	Remote On/Off	
3	Vin(-)	(-)Negative Input Voltage	
4	Vout(-)	(-)Negative Output Voltage	
5	SENSE(-)	(-)Negative Remote Sense	
6	TRIM	Output Voltage Trim	
7	SENSE(+)	(+)Positive Remote Sense	
8	Vout(+)	(+)Positive Output Voltage	

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■Typical Power DeRating

When using this product at the ambient air temperature of 30 degreeC or more, it should be used by the following temperature derating.



Temperature Derating Characteristic



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