

# MOTIEN TECHNOLOGY CO., LTD.

In order to enhance our competitiveness in the market and guarantee our product quality, MOTIEN had put lots efforts on getting the safety approval.

With UL Approval, our products will be more reliable.

Please refer to following products list of UL approval and get the product you need!



Series	Watts	Input Range		Efficiency	Isolation Voltage	Package	Remark
F1	1W	Fixed Input	3.3V / 5V	78%	4200Vdc	SMD 8 PIN / SMD 10 PIN	<ol style="list-style-type: none"> <li>1. Isolated &amp; Unregulated</li> <li>2. Low coupling capacity</li> <li>3. Rated working voltage for function insulation is 250 Vrms and 400 Vdc</li> <li>4. Qualified for Lead-free Reflow Soldering Process</li> <li>5. MSL Test Report is compliance with IPC/JEDEC J-STD-020D.1 Level 1</li> <li>6. Vibration test result meets MIL-STD-810F</li> <li>7. Operation Temperature Range -40°C~+105°C</li> </ol>
V1	1W	Fixed Input	3.3V / 5V 12V / 15V 24V / 48V	86%	1000~6000Vdc	SIP 7 / DIP 14	<ol style="list-style-type: none"> <li>1. Isolated &amp; Unregulated</li> <li>2. Low Ripple and Noise</li> <li>3. Operation Temperature Range -40°C~+85°C</li> </ol>
MB	1W	2:1	4.5~9V 9~18V 18~36V 36~75V	81%	1500Vdc	SIP6	<ol style="list-style-type: none"> <li>1. Isolated &amp; Regulated / No Minimum Load Required</li> <li>2. Continuous Short Circuit Protection</li> <li>3. Low Ripple and Noise</li> <li>4. Operating Temperature Range -40°C~+85°C</li> </ol>
<b>NEW</b> MBW	3W	4:1	4.5~18V 9~36V 18~75V	84%	1600Vdc	SIP6	<ol style="list-style-type: none"> <li>1. Isolated &amp; Regulated / No Minimum Load Required</li> <li>2. Continuous Short Circuit Protection / Under Voltage Lockout</li> <li>3. Operating Temperature Range -40°C~+76°C</li> </ol>
VD	3W	2:1	9~18V 18~36V 36~72V	82%	1500~3500Vdc	DIP24 Metal Case (Plastic Case Optional)	<ol style="list-style-type: none"> <li>1. Isolated &amp; Regulated/ No Minimum Load Required</li> <li>2. Continuous Short Circuit Protection</li> <li>3. Operating Temperature Range -40°C~+85°C</li> </ol>
	4W			82%			
	5W			83%			
	6W			83%			
	8W			85%			
	10W		9~18V 18~36V 36~75V	90%	1500Vdc	DIP24 Metal Case	<ol style="list-style-type: none"> <li>1. Isolated &amp; Regulated / No Minimum Load Required / High Power Density</li> <li>2. Continuous Short Circuit Protection / Soft Start /</li> <li>3. Over Voltage Protection (VD-10W only)</li> <li>4. Operating Temperature Range -40°C~+85°C</li> </ol>

Series	Watts	Input Range		Efficiency	Isolation Voltage	Package	Remark
VB	1W	2:1	4.5~9V 9~18V 18~36V 36~72V	77%	1000~3000Vdc	SIP8 / DIP16	<ol style="list-style-type: none"> <li>1. Isolated &amp; Regulated</li> <li>2. Continuous Short Circuit Protection</li> <li>3. Optional Remote On/Off Control</li> <li>4. Operating Temperature Range -40°C~+85°C</li> </ol>
	2W			80%			
	3W			84%	1600Vdc	SIP8	
	6W	2:1	9~18V 18~36V 36~75V	86%	1500~3000Vdc	SIP8	<ol style="list-style-type: none"> <li>1. Isolated &amp; Regulated / No Minimum Load Required</li> <li>2. Continuous Short Circuit Protection</li> <li>3. Optional Remote On/Off Control</li> <li>4. Operating Temperature Range -40°C~+65°C</li> </ol>
	9W			90%	1600Vdc	SIP8 Copper Case (Label Marking)	<ol style="list-style-type: none"> <li>1. Isolated &amp; Regulated / Highest Power Density</li> <li>2. Minimum Size of 9W series</li> <li>3. Continuous Short Circuit Protection</li> <li>4. Remote On/Off Control</li> <li>5. Operating Temperature Range -40°C~+85°C</li> </ol>
VBW	2W	4:1	9~36V 18~75V	85%	1500Vdc	SIP9	<ol style="list-style-type: none"> <li>1. Isolated &amp; Regulated / No Minimum Load Required</li> <li>2. Continuous Short Circuit Protection</li> <li>3. Optional Remote On/Off Control</li> <li>4. Operating Temperature Range -40°C~+75°C</li> </ol>
	3W			85%	1500Vdc	SIP9	
	6W			88%	1500~3000Vdc	SIP8	
	9W	4:1	9~36V 18~75V	89%	1600Vdc	SIP8 Copper Case (Label Marking)	<ol style="list-style-type: none"> <li>1. Isolated &amp; Regulated / Highest Power Density</li> <li>2. Minimum Size of 9W series</li> <li>3. Continuous Short Circuit Protection</li> <li>4. Remote On/Off Control</li> <li>5. Operating Temperature Range -40°C~+85°C</li> </ol>
MD	3W	2:1	9~18V 18~36V 36~75V	81%	1500~3000Vdc	DIP24 Plastic Case (Metal Case Optional)	<ol style="list-style-type: none"> <li>1. Isolated &amp; Regulated / No Minimum Load Required</li> <li>2. Continuous Short Circuit Protection / Over Load Protection / Under Voltage Lockout</li> <li>3. Operating Temperature Range -40°C~+85°C</li> </ol>
	6W			85%			
MK	3W	4:1	9~36V 18~75V	81%	1500~3000Vdc	DIP24 Plastic Case (Metal Case Optional)	<ol style="list-style-type: none"> <li>1. Isolated &amp; Regulated / No Minimum Load Required</li> <li>2. Continuous Short Circuit Protection / Over Load Protection / Under Voltage Lockout</li> <li>3. Operating Temperature Range -40°C~+85°C</li> </ol>
	6W			85%			

Series	Watts	Input Range		Efficiency	Isolation Voltage	Package	Remark
<b>NEW</b> M10A	10W	4:1	9~36V 18~75V	87%	1600Vdc	DIP16	<ol style="list-style-type: none"> <li>1. Isolated &amp; Regulated / No Minimum Load Required / High Power Density</li> <li>2. Continuous Short Circuit Protection / Over Load Protection</li> <li>3. Under Voltage Lockout / Adjustable Output Voltage</li> <li>4. Operating Temperature Range -40°C~+100°C</li> </ol>
VV	8W	4:1	9~36V 18~75V	87%	1600Vdc	DIP24 Metal Case	<ol style="list-style-type: none"> <li>1. Isolated &amp; Regulated / No Minimum Load Required / High Power Density</li> <li>2. Continuous Short Circuit Protection / Remote On/Off Control / Soft Start</li> <li>3. Over Voltage / Over Load Protection</li> <li>4. Operating Temperature Range -40°C~+85°C</li> </ol>
	10W			88%			
	12W			90%			
V7	10W	2:1	9~18V 18~36V 36~72V	86%	1500~3000Vdc	2"x1" Nickel-coated Copper Case (Laser Marking)	<ol style="list-style-type: none"> <li>1. Isolated &amp; Regulated / No Minimum Load Required</li> <li>2. Continuous Short Circuit Protection</li> <li>3. Operating Temperature Range -40°C~+85°C</li> </ol>
	15W			87%			
V7W	10W	4:1	9~36V 18~72V	85%	1500Vdc	2"x1" Nickel-coated Copper Case (Laser Marking)	<ol style="list-style-type: none"> <li>1. Isolated &amp; Regulated / No Minimum Load Required</li> <li>2. Continuous Short Circuit Protection</li> <li>3. Remote On / Off Control (Optional)</li> <li>4. Operating Temperature Range -40°C~+85°C</li> </ol>
	15W			86%			
M7W	15W	4:1	9~36V 18~75V	90%	3000Vdc	1.6"x1" Copper Case (Label Marking)	<ol style="list-style-type: none"> <li>1. Isolated &amp; Regulated / No Minimum Load Required</li> <li>2. Continuous Short Circuit Protection / Soft Start</li> <li>3. Over Load / Over Voltage Protection</li> <li>4. Remote On / Off Control (CTRL) / Adjustable Output Voltage</li> <li>5. Operating Temperature Range -40°C~+100°C</li> <li>6. Built-in EMI filter meets EN55032 Class A without external components</li> </ol>
M9	20W	4:1	9~36V 18~75V	91%	3000Vdc	1.6"x1" Copper Case (Label Marking)	<ol style="list-style-type: none"> <li>1. Isolated &amp; Regulated / No Minimum Load Required</li> <li>2. Continuous Short Circuit Protection / Soft Start</li> <li>3. Over Load / Over Voltage Protection</li> <li>4. Remote On / Off Control (CTRL) / Adjustable Output Voltage</li> <li>5. Operating Temperature Range -40°C~+100°C</li> <li>6. Built-in EMI filter meets EN55032 Class A without external components</li> </ol>
VT	50W	2:1	9~18V 18~36V 36~75V	92%	1600Vdc	2"x1" Copper Case (Label Marking)	<ol style="list-style-type: none"> <li>1. Isolated &amp; Regulated / No Minimum Load Required</li> <li>2. Continuous Short Circuit Protection / Soft Start</li> <li>3. Over Current / Over Voltage / Over Temperature Protection</li> <li>4. Remote On / Off Control (CTRL) / Adjustable Output Voltage</li> <li>5. Operating Temperature Range -40°C~+95°C</li> </ol>
VTW	60W	4:1	9~36V 18~75V	93%	1600Vdc	2"x1" Copper Case (Label Marking)	<ol style="list-style-type: none"> <li>1. Isolated &amp; Regulated / No Minimum Load Required</li> <li>2. Continuous Short Circuit Protection / Soft Start</li> <li>3. Over Current / Over Voltage / Over Temperature Protection</li> <li>4. Remote On / Off Control (CTRL) / Adjustable Output Voltage</li> <li>5. Operating Temperature Range -40°C~+100°C</li> </ol>

Series	Watts	Input Range		Efficiency	Isolation Voltage	Package	Remark
VN	15W	2:1	9~18V 18~36V 36~75V	89%	1600Vdc	1" X 1" Nickel-coated Copper Case (Laser Marking)	1. Isolated & Regulated / No Minimum Load Required 2. Over Voltage Protection / Over Load Protection / Soft Start 3. Adjustable Output Voltage / Remote On/Off Control 4. Operating Temperature Range -40°C~+85°C
	20W			90%			1. Isolated & Regulated / No Minimum Load Required 2. Over Voltage Protection / Over Load Protection / Soft Start 3. Adjustable Output Voltage / Remote On/Off Control / Continuous Short Circuit Protection 4. Operating Temperature Range -40°C~+75°C
	30W			92%		1" X 1" Copper Case (Label Marking)	1. Isolated & Regulated / No Minimum Load Required 2. Over Voltage Protection / Over Load Protection / Soft Start 3. Adjustable Output Voltage / Remote On/Off Control / Continuous Short Circuit Protection 4. Operating Temperature Range -40°C~+100°C
VNW	15W	4:1	9~36V 18~75V	89%	1600Vdc	1" X 1" Nickel-coated Copper Case (Laser Marking)	1. Isolated & Regulated / No Minimum Load Required 2. Over Voltage Protection / Over Load Protection / Soft Start 3. Adjustable Output Voltage/ Remote On/Off Control 4. Operating Temperature Range -40°C~+85°C
	20W			85%			1. Isolated & Regulated / No Minimum Load Required 2. Over Voltage Protection / Over Load Protection / Soft Start 3. Adjustable Output Voltage / Remote On/Off Control / Continuous Short Circuit Protection 4. Operating Temperature Range -40°C~+75°C
	30W			92%		1" X 1" Copper Case (Label Marking)	1. Isolated & Regulated / No Minimum Load Required 2. Over Voltage Protection / Over Load Protection / Soft Start 3. Adjustable Output Voltage / Remote On/Off Control / Continuous Short Circuit Protection 4. Operating Temperature Range -40°C~+100°C



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Tel : +886-6-384 2366 ( Rep. ) Fax : +886-6-384 2399

E-mail : [sales@motien.com.tw](mailto:sales@motien.com.tw) Web : [www.motien.com.tw](http://www.motien.com.tw)

