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## Mitsubishi



### 一、CM series standard IGBT module

Mitsubishi IGBT module ( series map )

third generation (Early)	third generation (Late)	Fourth Generation	Fifth Generation
H series	U series KA series	F series DUS series (high frequency)	NF series A series Mega Power Dual NFH series (high frequency)

#### ■ third generation ( Early ) —H series Mitsubishi IGBT module

One units HA	600V (12H): <a href="#">CM300HA-12H</a> <a href="#">CM400HA-12H</a> <a href="#">CM600HA-12H</a> 1200V (24H): <a href="#">CM200HA-24H</a> <a href="#">CM300HA-24H</a> <a href="#">CM400HA-24H</a> <a href="#">CM600HA-24H</a> <a href="#">CM800HA-24H</a> <a href="#">CM1000HA-24H</a> 1400V (28H): <a href="#">CM400HA-28H</a> <a href="#">CM600HA-28H</a> <a href="#">CM1000HA-28H</a>
Two units DY	600V (12H): <a href="#">CM50DY-12H</a> <a href="#">CM75DY-12H</a> <a href="#">CM100DY-12H</a> <a href="#">CM150DY-12H</a> <a href="#">CM200DY-12H</a> <a href="#">CM300DY-12H</a> <a href="#">CM400DY-12H</a> 1200V (24H): <a href="#">CM50DY-24H</a> <a href="#">CM75DY-24H</a> <a href="#">CM100DY-24H</a> <a href="#">CM150DY-24H</a> <a href="#">CM200DY-24H</a> <a href="#">CM300DY-24H</a> 1400V (28H): <a href="#">CM50DY-28H</a> <a href="#">CM75DY-28H</a> <a href="#">CM100DY-28H</a> <a href="#">CM200DY-28H</a> <a href="#">CM300DY-28H</a>
Six units TF	600V (12H): <a href="#">CM15TF-12H</a> <a href="#">CM20TF-12H</a> <a href="#">CM30TF-12H</a> <a href="#">CM50TF-12H</a> <a href="#">CM75TF-12H</a> <a href="#">CM100TF-12H</a> <a href="#">CM150TF-12H</a> 1200V (24H): <a href="#">CM15TF-24H</a> <a href="#">CM20TF-24H</a> <a href="#">CM30TF-24H</a> <a href="#">CM50TF-24H</a> <a href="#">CM75TF-24H</a> <a href="#">CM100TF-24H</a> 1400V (28H): <a href="#">CM50TF-28H</a> <a href="#">CM75TF-28H</a> <a href="#">CM100TF-28H</a>

■ **third generation ( Late ) ——U series Mitsubishi IGBT module**

One units HU	600V (12H): <a href="#">CM600HU-12H</a> 1200V (24H): <a href="#">CM400HU-24H</a> <a href="#">CM600HU-24H</a>
Two units DU	600V (12H): <a href="#">CM75DU-12H</a> <a href="#">CM100DU-12H</a> <a href="#">CM150DU-12H</a> <a href="#">CM200DU-12H</a> <a href="#">CM300DU-12H</a> <a href="#">CM400DU-12H</a> 1200V (24H): <a href="#">CM50DU-24H</a> <a href="#">CM75DU-24H</a> <a href="#">CM100DU-24H</a> <a href="#">CM150DU-24H</a> <a href="#">CM200DU-24H</a> <a href="#">CM300DU-24H</a>
Four units BU	600V (12H): <a href="#">CM75BU-12H</a> <a href="#">CM100BU-12H</a>
Six units TU	600V (12H): <a href="#">CM75TU-12H</a> <a href="#">CM100TU-12H</a> <a href="#">CM150TU-12H</a> <a href="#">CM200TU-12H</a> 1200V (24H): <a href="#">CM50TU-24H</a> <a href="#">CM75TU-24H</a> <a href="#">CM100TF-24H</a>

■ **third generation ( Late ) ——KA series Mitsubishi IGBT module**

Two units DU	1700V (34KA): <a href="#">CM100DU-34KA</a> <a href="#">CM150DU-34KA</a> <a href="#">CM200DU-34KA</a> <a href="#">CM300DU-34KA</a> <a href="#">CM400DU-34KA</a>
Six units TU	1700V (34KA): <a href="#">CM50TU-34KA</a> <a href="#">CM75TU-34KA</a>

■ **Fourth Generation ——F series Mitsubishi IGBT module**

One units HU	600V (12F): <a href="#">CM600HU-12F</a> 1200V (24F): <a href="#">CM400HU-24F</a> <a href="#">CM600HU-24F</a>
Two units DU	600V (12F): <a href="#">CM75DU-12F</a> <a href="#">CM100DU-12F</a> <a href="#">CM150DU-12F</a> <a href="#">CM200DU-12F</a> <a href="#">CM300DU-12F</a> <a href="#">CM400DU-12F</a> 1200V (24F): <a href="#">CM50DU-24F</a> <a href="#">CM75DU-24F</a> <a href="#">CM100DU-24F</a> <a href="#">CM150DU-24F</a> <a href="#">CM200DU-24F</a> <a href="#">CM300DU-24F</a> <a href="#">CM400DU-24F</a> <a href="#">CM600DU-24F</a>
Six units TU	600V (12F): <a href="#">CM75TU-12F</a> <a href="#">CM100TU-12F</a> <a href="#">CM150TU-12F</a> <a href="#">CM200TU-12F</a> 1200V (24F): <a href="#">CM50TU-24F</a> <a href="#">CM75TU-24F</a> <a href="#">CM100TU-24F</a>

■ **Fifth Generation ——NF series Mitsubishi IGBT module**

Two units DY	600V (12NF): <a href="#">CM150DY-12NF</a> <a href="#">CM200DY-12NF</a> <a href="#">CM300DY-12NF</a> <a href="#">CM400DY-12NF</a> <a href="#">CM600DY-12NF</a> 1200V (24NF): <a href="#">CM100DY-24NF</a> <a href="#">CM150DY-24NF</a> <a href="#">CM200DY-24NF</a> <a href="#">CM300DY-24NF</a> <a href="#">CM400DY-24NF</a> <a href="#">CM600DU-24NF</a>
Six units TL	600V (12NF): <a href="#">CM75TL-12NF</a> <a href="#">CM100TL-12NF</a> <a href="#">CM150TL-12NF</a> <a href="#">CM200TL-12NF</a> 1200V (24NF): <a href="#">CM50TL-24NF</a> <a href="#">CM75TL-24NF</a> <a href="#">CM100TL-24NF</a> <a href="#">CM150TL-24NF</a> <a href="#">CM200TL-24NF</a>
Seven units RL	600V (12NF): <a href="#">CM75RL-12NF</a> <a href="#">CM100RL-12NF</a> <a href="#">CM150RL-12NF</a> <a href="#">CM200RL-12NF</a> 1200V (24NF): <a href="#">CM50RL-24NF</a> <a href="#">CM75RL-24NF</a> <a href="#">CM100RL-24NF</a> <a href="#">CM150RL-24NF</a> <a href="#">CM200RL-24NF</a>

■ **Fifth Generation ——A series Mitsubishi IGBT module**

One units HA	1200V (24A): <a href="#">CM400HA-24A</a> <a href="#">CM600HA-24A</a>
Two units DY	1200V (24A): <a href="#">CM100DY-24A</a> <a href="#">CM150DY-24A</a> <a href="#">CM200DY-24A</a> <a href="#">CM300DY-24A</a> <a href="#">CM400DY-24A</a> <a href="#">CM600DY-24A</a>

■ **Fifth Generation——Mega Power Dual**

Two units DU	1200V (24NF): CM900DU-24NF CM1400DY-24NF 1700V (34NF): CM1000DU-34NF
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■ **Fifth Generation——NFH series Mitsubishi IGBT module (Used in high-frequency switches)**

Two units DY	600V (12NFH): <a href="#">CM200DU-12NFH</a> <a href="#">CM300DU-12NFH</a> <a href="#">CM400DU-12NFH</a> 1200V (24NFH): <a href="#">CM100DU-24NFH</a> <a href="#">CM150DU-24NFH</a> <a href="#">CM200DU-24NFH</a> <a href="#">CM300DU-24NFH</a> <a href="#">CM400DU-24NFH</a> <a href="#">CM600DU-24NFH</a>
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## 二、 PM series smart module ( IPM )

Mitsubishi IPM series smart module ( series map )

third generation (Early)	third generation (Late)	Fourth Generation	Fifth Generation
S series	V series	S-DASH series S-DASH Servo series	L series

■ **third generation ( Early ) ——S series smart module**

One units HSA	1200V: <a href="#">PM400HSA120</a> <a href="#">PM600HSA120</a>
Two units DSA	600V: <a href="#">PM200DSA060</a> <a href="#">PM300DSA060</a> <a href="#">PM400DSA060</a> <a href="#">PM600DSA060</a> 1200V: <a href="#">PM75DSA120</a> <a href="#">PM100DSA120</a> <a href="#">PM150DSA120</a> <a href="#">PM200DSA120</a> <a href="#">PM300DSA120</a>
Six units CS	600V: <a href="#">PM15CSJ060</a> <a href="#">PM20CSJ060</a> <a href="#">PM30CSJ060</a> <a href="#">PM100CSA060</a> <a href="#">PM150CSA060</a> <a href="#">PM200CSA060</a> 1200V: <a href="#">PM100CSA120</a>
Seven units RS	600V: <a href="#">PM30RSF060</a> <a href="#">PM50RSA060</a> <a href="#">PM75RSA060</a> <a href="#">PM100RSA060</a> <a href="#">PM150RSA060</a> 1200V: <a href="#">PM10RSH120</a> <a href="#">PM15RSH120</a> <a href="#">PM25RSB120</a> <a href="#">PM50RSA120</a>

■ **third generation ( Late ) ——V series smart module**

Two units DVA	600V: <a href="#">PM400DVA060</a> <a href="#">PM600DVA060</a> 1200V: <a href="#">PM200DVA120</a> <a href="#">PM300DVA120</a>
Six units CVA	600V: <a href="#">PM100CVA060</a> <a href="#">PM150CVA060</a> <a href="#">PM200CVA060</a> <a href="#">PM300CVA060</a> 1200V: <a href="#">PM75CVA120</a> <a href="#">PM100CVA120</a> <a href="#">PM150CVA120</a>
Seven units RVA	600V: <a href="#">PM75RVA060</a> 1200V: <a href="#">PM50RVA120</a>

■ **Fourth Generation——S-DASH series smart module / S-DASH Servo series module**

VCES (V)	units	Type name	Applicable motor power (KW)	Output characteristics		Built-in features						
				phase number	AC voltage	OC	SC	UV	OT	BR	PF0	NF0
600V	Seven units RSD	<a href="#">PM50RSD060</a>	3.7	<b>3 φ+ Brake</b>	<b>220V</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<a href="#">PM75RSD060</a>	5.5/7.5			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<a href="#">PM100RSD060</a>	11			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<a href="#">PM150RSD060</a>	15/18.5			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<a href="#">PM200RSD060</a>	22			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<a href="#">PM300RSD060</a>	30			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Six units CSD	<a href="#">PM50CSD060</a>	3.7	<b>3 φ</b>	<b>220V</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
		<a href="#">PM75CSD060</a>	5.5/7.5			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
		<a href="#">PM100CSD060</a>	11			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
		<a href="#">PM150CSD060</a>	15/18.5			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
		<a href="#">PM200CSD060</a>	22			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
		<a href="#">PM300CSD060</a>	30			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
	Seven units RSE	<a href="#">PM50RSE060</a>	3.7	<b>3 φ+ Brake</b>	<b>220V</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>
		<a href="#">PM75RSE060</a>	5.5/7.5			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>
		<a href="#">PM100RSE060</a>	11			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>
		<a href="#">PM150RSE060</a>	15/18.5			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>
		<a href="#">PM200RSE060</a>	22			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>
		<a href="#">PM300RSE060</a>	30			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>
	Six units CSE	<a href="#">PM50CSE060</a>	3.7	<b>3 φ</b>	<b>220V</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>
		<a href="#">PM75CSE060</a>	5.5/7.5			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>
		<a href="#">PM100CSE060</a>	11			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>
		<a href="#">PM150CSE060</a>	15/18.5			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>
		<a href="#">PM200CSE060</a>	22			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>
		<a href="#">PM300CSE060</a>	30			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>
1200V	Seven units RSD	<a href="#">PM50RSD120</a>	7.5	<b>3 φ+ Brake</b>	<b>440V</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<a href="#">PM75RSD120</a>	15			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<a href="#">PM100RSD120</a>	18.5/22			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<a href="#">PM150RSD120</a>	30			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Six units CSD	<a href="#">PM50CSD120</a>	7.5	<b>3 φ</b>	<b>440V</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
		<a href="#">PM75CSD120</a>	15			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
		<a href="#">PM100CSD120</a>	18.5/22			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
		<a href="#">PM150CSD120</a>	30			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
	Seven units RSE	<a href="#">PM50RSE120</a>	7.5	<b>3 φ+ Brake</b>	<b>440V</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>
		<a href="#">PM75RSE120</a>	15			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>
		<a href="#">PM100RSE120</a>	18.5/22			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>
		<a href="#">PM150RSE120</a>	30			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>
	Six units CSE	<a href="#">PM50CSE120</a>	7.5	<b>3 φ</b>	<b>440V</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>
		<a href="#">PM75CSE120</a>	15			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>
		<a href="#">PM100CSE120</a>	18.5/22			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>
		<a href="#">PM150CSE120</a>	30			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>
	Six units CBS	<a href="#">PM50CBS060</a>	3.7	<b>3 φ</b>	<b>220V</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>



Six units CLA Bolt main electrode CLB Needle main electrode	<a href="#">PM100CLA120</a>	18.5/22	3 φ	440V	×	○	○	○	○	○	○	
	<a href="#">PM150CLA120</a>	30			×	○	○	○	○	○	○	○
	<a href="#">PM25CLA120</a>	3.7			×	○	○	○	×	○	○	
	<a href="#">PM25CLB120</a>				×	○	○	○	×	○	○	
	<a href="#">PM50CLA120</a>	7.5			×	○	○	○	×	○	○	
	<a href="#">PM50CLB120</a>				×	○	○	○	×	○	○	
	<a href="#">PM75CLA120</a>	15			×	○	○	○	×	○	○	
	<a href="#">PM75CLB120</a>				×	○	○	○	×	○	○	
	<a href="#">PM100CLA120</a>	18.5/22			×	○	○	○	×	○	○	
	<a href="#">PM150CLA120</a>	30			×	○	○	○	×	○	○	
	<a href="#">PM200CLA120</a>	37/45			×	○	○	○	×	○	○	
	<a href="#">PM300CLA120</a>	55			×	○	○	○	×	○	○	
	<a href="#">PM450CLA120</a>	75			×	○	○	○	×	○	○	

  

OC:Over-current protection	BR:Elements for braking control	○:Built-in integrated
SC:Shot-circuit protection	PFo:P side fault output	△:Installed only with N-side
UV:Control supply under voltage	NFo:N side fault output	×
OT:Over temperature protection		







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Venus

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