

# GENERAL CONSIDERATIONS FOR IGBT AND INTELLIGENT POWER MODULES

## 3.0 General Considerations for IGBT and Intelligent Power Modules

H-Series IGBT and Intelligent Power Modules are based on advanced third generation IGBT and free-wheel diode technologies. The general guidelines for power circuit, snubber and thermal system design are essentially the same for both product families. This section will cover these general application issues. The sections that follow will give specific details for each product family.

## 3.1 Numbering System

- (1) Devices:  
CM = IGBT Module  
PM = IPM
- (2) Current Rating  $I_c$  (Ampere)
- (3) For IPM:  
H = Single  
D = Dual  
C = Six in one  
R = Seven in one
- (4) IGBT Module:  
H = Single  
D = Dual  
T = Six  
E3 = Brake
- (5) Outline or Minor Change
- (6) For IGBT Module:  
Voltage,  $V_{CES}$  Volts (x50)
- (7) For IPM:  
Voltage  $V_{CES}$  Volts (x10)
- (8) For IGBT Module:  
F = F series (Trench Gate)  
H = H series/U series
- For IPM:  
S = Third Generation  
V = V-Series

Examples:

**CM 100 T U - 24 F**

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|

(1)
(2)
(4)
(5)
(6)
(8)

CM100DY-24H is a 100 Ampere, 1200 Volt, Dual IGBT Module

**PM 600 H SA 120**

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|
|
|
|

(1)
(2)
(3)
(6)
(7)

PM600HSA120 is a 600 Ampere, 1200 Volt, Single IPM

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**JA Banks**



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