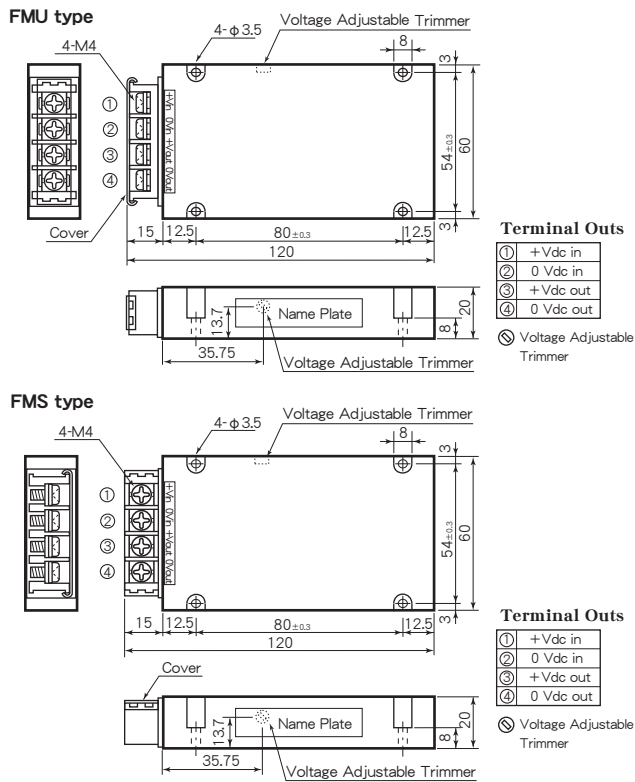


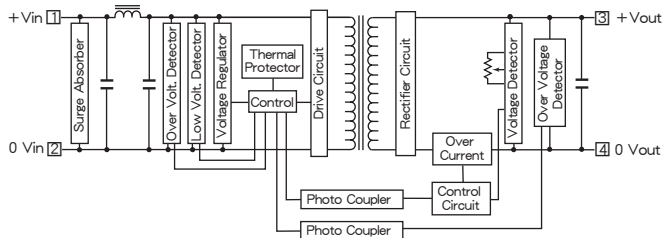


# FM SERIES DATA SHEET

## Terminal Outs & Dimensions ( $\pm 0.5\text{mm}$ )

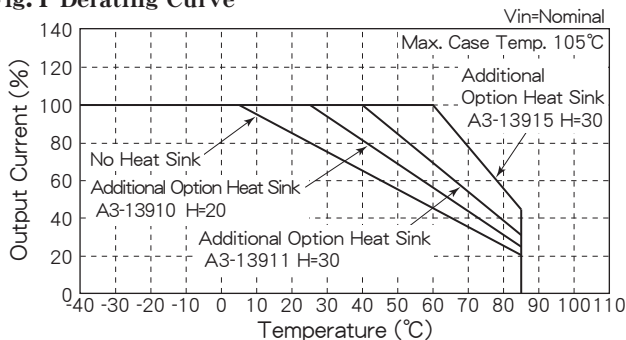


## Block Diagram



## Characteristic Curves

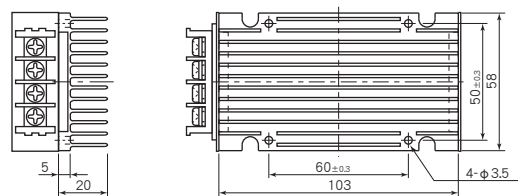
**Fig. 1 Derating Curve**



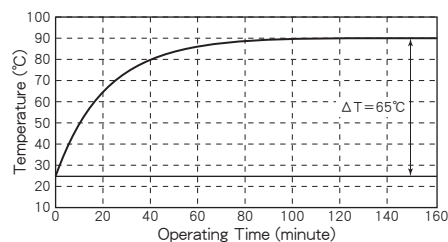
## Option Heat Sink

**Fig. 2 Temperature Characteristic on Case Surface**

\* Option Heat Sink Model : A3-13910

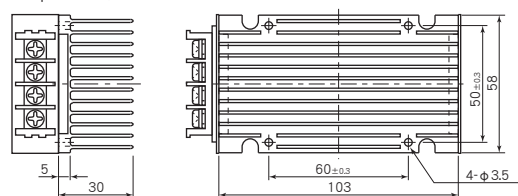


FMU24-12S16.7A Additional Heat Sink A3-13910  
Ta=25°C, 100% Load, Vin=Nominal

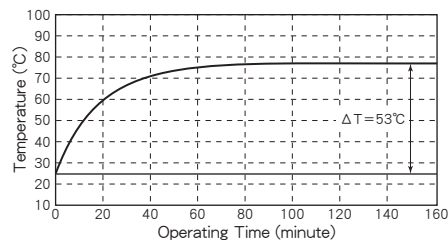


**Fig. 3 Temperature Characteristic on Case Surface**

\* Option Heat Sink Model : A3-13911

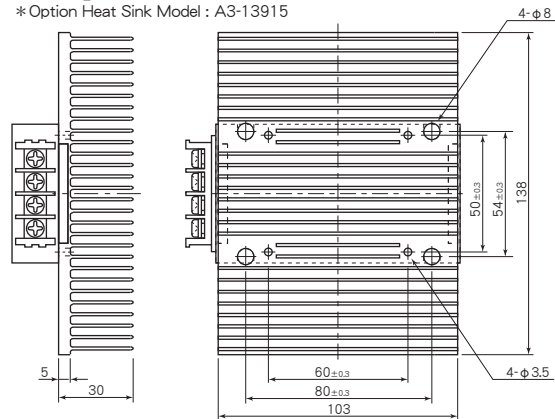


FMU24-12S16.7A Additional Heat Sink A3-13911  
Ta=25°C, 100% Load, Vin=Nominal

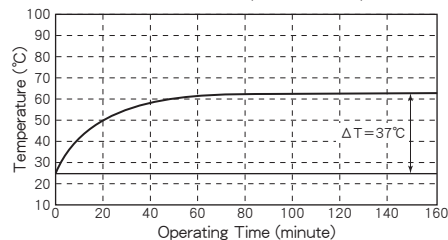


**Fig. 4 Temperature Characteristic on Case Surface**

\* Option Heat Sink Model : A3-13915



FMU24-12S16.7A Additional Heat Sink A3-13915  
Ta=25°C, 100% Load, Vin=Nominal



# FM SERIES DATA SHEET

## Characteristic Curves

Fig. 5 Short Circuit Operating Area

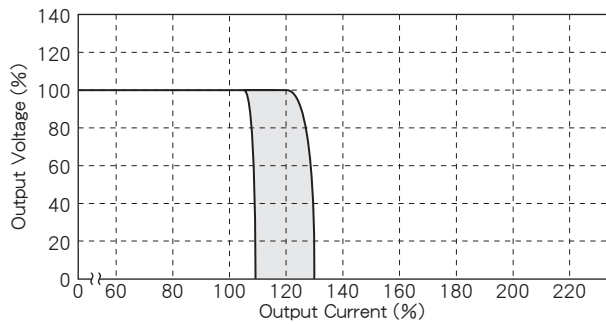
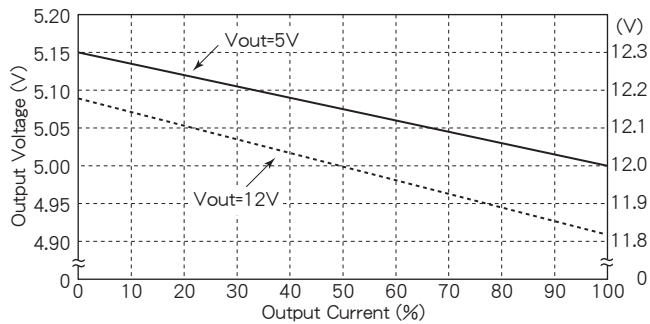


Fig. 6 Output Voltage vs. Output Current



\* 並列運転時に各モジュールの電流を平均化するため  
 負荷変動を大きくしてあります。  
 Load Regulation is regulated large on purpose to equate  
 the each unit's output current at parallel operation.

Fig. 7 Efficiency vs. Output Current

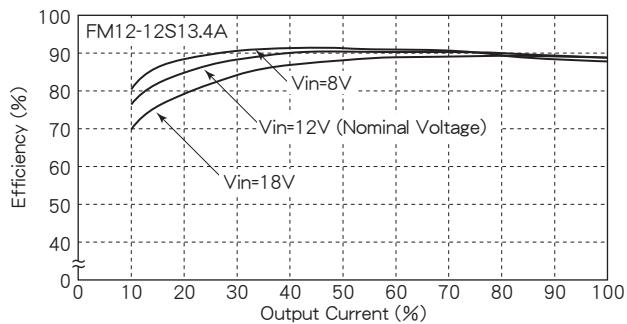


Fig. 8 Efficiency vs. Output Current

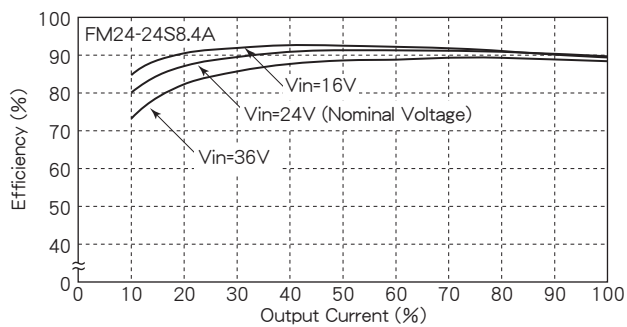


Fig. 9 Efficiency vs. Output Current

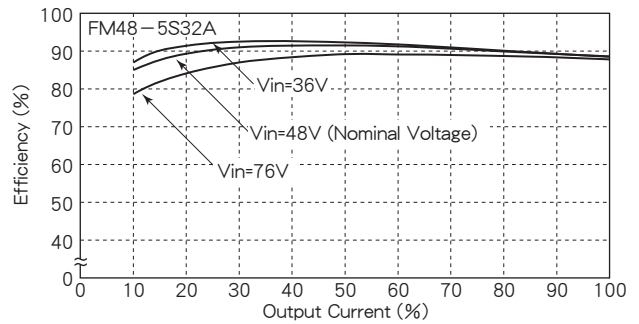


Fig. 10 Efficiency vs. Output Current

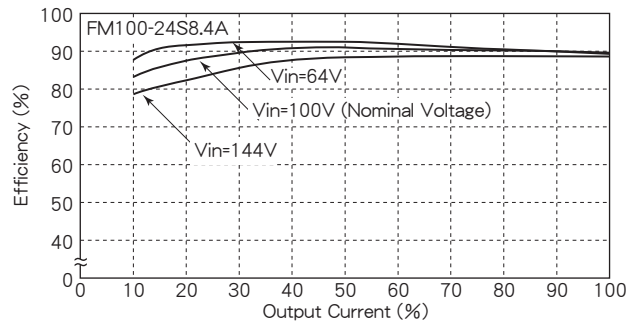
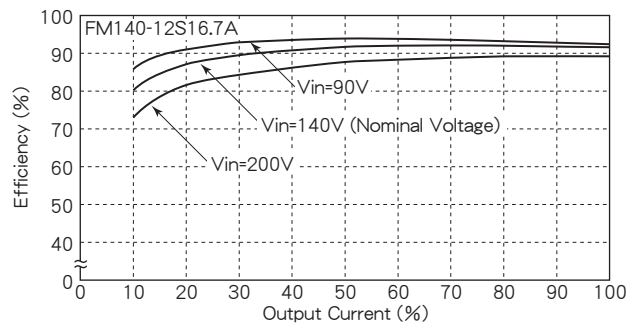


Fig. 11 Efficiency vs. Output Current



## ■ Parallel Operation

同機種を並列に動作させることにより、出力電流容量を増やすことができます。下図のように結線し、各コンバータ間の出力電圧を同じ電圧に調整することで、並列運転ができます。(Fig. 12を御参照ください)

It is possible to increase output current capacity by parallel operation of the same model. Please see the below figure for wiring instruction. Parallel operation is possible by each outputs to be same voltage.

**Fig. 12 Parallel Operation Connection**

