



Figure 15. Output current obtained from MMC

6. CONCLUSION

In this paper the energy is extracted from sun radiations with the help of photovoltaic cells. The energy is available in the form of DC voltage and it is converted to AC voltage with Modular Multilevel Converter (MMC). The proposed system has been discussed. Harmonic analysis of the output voltage has been discussed and observed that on increasing the no of levels of the output voltage THD can be considerably decreased. THD may decrease with increase in levels of MMC without increasing the switching frequency so as to limit the switching losses. The proposed system can be further extended for wind energy conversion system. Apart from solar and wind it can be implemented for hybrid combination of the two.

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