

Date of Conference: 18-19 December 2023**DOI:** 10.1109/iTechSECOM59882.2023.10435243**Date Added to IEEE Xplore:** 21 February 2024**Publisher:** IEEE**► ISBN Information:****Conference Location:** Coimbatore, India **Contents****I. INTRODUCTION**

Due to the rising need for spotless vitality and the essential to go above the constraints of fossil coals, electric vehicles have attracted a lot of attention in many nations. Reducing air pollution, reducing dependency on fossil fuels, and enhancing vigor security are the main objectives of EVs. Only when EVs are combined with Renewable Energy Sources are the aforementioned requirements satisfied [1]. Solar PV-based EV charging systems are generally favored among various RESs due to their vast availability in nature and lack of carbon emissions [2]. In order to maximize the output voltage across a large range, high-gain dc converters are used since the little power of PV is inadequate to satisfy the requirement [3]. There is an increasing requirement for dynamism effectual indicting stations to enable dc debauched and ultra-quick incriminating since EVs presently have larger battery volume and driving ranges than their earlier iterations. The PV addition is still regarded as a small percentage of the power source for EV accusing stations in investigations. Regarding the greater need for fast charging throughout the day, PV group's quick development enhances control usage at peak times with its sufficient daytime output [4], [5].

Authors



Figures



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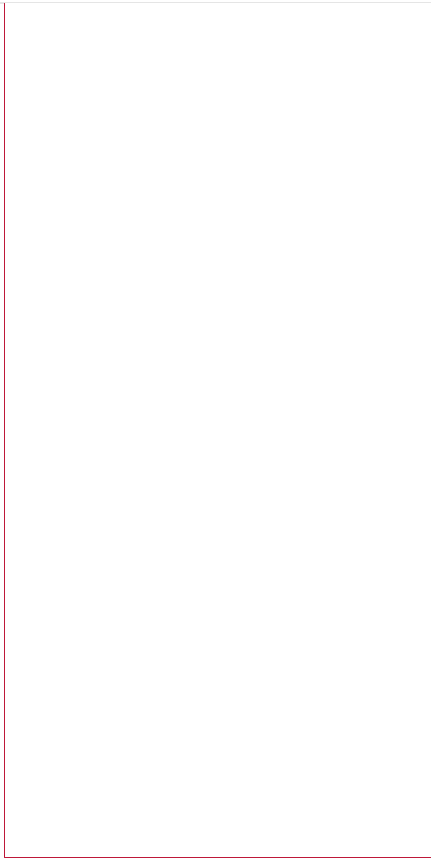
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