

MeitY Secretary S Krishnan launches “Made-In-India” 2KW DC Portable Charger to help Boost Electric Vehicle Adoption

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Secretary, Ministry of Electronics & Information Technology (MeitY), Shri S Krishnan has witnessed the launch of indigenous Technology of 2KW DC Portable Charger developed by Centre of Excellence at IIT Madras Research Park to help Boost Electric Vehicle Adoption, here today at IIT Madras. The official from MeitY, Smt. Su Verma GC (R&DE), MeitY, Prof. Ashok Jhunjhunwala, IIT Madras and other dignitaries from MeitY and IIT Madras were present on the occasion.

Addressing the gathering, Shri S Krishnan said “The Prime Minister Shri Narendra Modi’s vision of ‘Make in India Make for the World’ can be achieved with develop more and more indigenisation of technology and taking it forward by the industry. Now, India has moved from importing Nation to exporting Nation, this type innovation and synergy will make India a ‘Aatma Nirbhar Bharat’.

The Secretary added that Design in India will give impetus to home-grown IP and will accelerate start-ups ecosystem in the country. He further mentioned that IIT Research Park is now an internationally recognised brand. The Park is vibrant and effervescent constantly innovating and promoting new initiatives. The new 2 KW charger designed in the Park and using recycled material is an important step forward. MeitY is very proud of being associated with this venture”

The launch marks a significant step in contributing towards the Ministry of Electronics and Information Technology’s (MeitY) mission of accelerating Electric Vehicle adoption in India, reducing the current dependence on imported charging solutions. Currently a substantial portion of portable chargers utilized by OEMs are imported : arrive pre-programmed. Hence, they are not customizable in terms of voltage and current settings. Thermal and mechanical design play a major role in ensuring the pro functionality of the chargers. This further underlines the importance of developing Make-In-India chargers to aid in the proliferation of EVs in India.

To address this challenge and increase local manufacturing, the 2KW charger has been designed and developed by CEET, IIT Madras and industrial partner Flow Technologies with funding by the Ministry of Electronics and Information Technology (MeitY), Govt of India. These chargers sporting an efficiency of >95% : functioning at a maximum operating ambient of 50 Degree Celsius are built with over-load, over-voltage, reverse polarity and in-built EMI/EMC filter. The chargers designed to meet safety Standard IEC 60950-11. Charger design also includes optional provision to communicate with battery for adaptive charging based on batt requirements and hooks for IoT to enable live tracking of charging related parameters. Power output settings can be customized based on the volume of the manufacturer to suit the requirement of individual OEMs. Successful large-scale manufacturing of this technology can significantly make difference in the portable charger market.





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