

# Efficient Energy Technology's (EET) SolMate® Adopts EPC GaN, Doubling Efficiency and Extending Product Lifetime

EL SEGUNDO, CA, UNITED STATES,  
December 5, 2023 /EINPresswire.com/

-- Efficient Energy Technology GmbH (EET), the Austrian-based pioneer in designing and producing innovative balcony power plants, has selected Efficient Power Conversion Corporation's ([EPC](#)) EPC2204 enhancement-mode gallium nitride (eGaN®) power transistor for its



Our commitment to delivering high-performance and efficient power conversion solutions aligns perfectly with EET's mission to make renewable energy accessible and reliable for all."

*Stefan Werkstetter, VP of  
EMEA Sales at EPC*

latest SolMate® green solar balcony product. The EPC2204 strikes an optimal compromise between low RDS(on) and low COSS, critical for demanding hard switching application, while featuring a drain-source breakdown voltage of 100 V in a compact package. This compact design significantly reduces PCB size, keeps current loops small, and minimizes electromagnetic interference (EMI) emissions.

EET has realized multiple benefits following the integration of GaN in its SolMate MPPT charging converter. Efficiency loss has been halved, increasing overall efficiency from 96% to 98%. The converter's volume has decreased by

70%, the BOM and manufacturing costs have been reduced by 20%, all while lowering cooling requirements. Additionally, the increased switching frequency by a factor of 10 eliminates the need for error-prone electrolytic capacitors, thus increasing the converter's lifespan.

By reducing power loss, EET's system can more efficiently convert solar energy, allowing the company to generate several megawatts of additional green solar power that would otherwise dissipate as heat on a large scale. The reduced cooling requirements are particularly significant in scenarios without access to fresh air, where a water-resistant case is employed.

EET's SolMate has won many awards for its technical innovation, for the high technical standards and the innovative design, including the James Dyson Award, Living Standards Austria, the German Sustainability Award (Design), the SolarPower Summit Award, and a finalist in the Intersolar EES Award.

Commenting on the development, Jan Senn, CMO & Sales at EET stated, "Our vision is to make renewable energy simple, safe and reliable for everyone. We accomplish this by enabling individuals to use green energy where it is most crucial - in their own homes. SolMate combines the highest quality, excellent user experience, and design into one user-friendly lifestyle product for every home. Transitioning to GaN helps us realize this vision, and we are currently exploring the integration of GaN transistors from EPC in other power converters as well."

Stefan Werkstetter, VP of EMEA Sales at EPC, stated, "We are delighted that EET has chosen our EPC2204 [eGaN FET](#) for

their SolMate green solar balcony product. Our commitment to delivering high-performance and efficient power conversion solutions aligns perfectly with EET's mission to make renewable energy accessible and reliable for all. We look forward to continuing our partnership with EET and contributing to the advancement of sustainable energy solutions."

#### About EPC

EPC is the leader in enhancement mode gallium nitride (eGaN<sup>®</sup>) based power management. eGaN FETs and integrated circuits provide performance many times greater than the best silicon power MOSFETs in applications such as DC-DC converters, remote sensing technology (lidar), motor drives for eMobility, robotics, and drones, and low-cost satellites.

Visit our web site: [epc-co.com](http://epc-co.com)

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#### About EET

EET (Efficient Energy Technology GmbH) is the global innovation leader in the field of Plug&Play storage systems. The Graz-based Start-Up EET was founded in May 2017 with the idea of making renewable energies simple, safe, and reliable for everyone. The headquarters in Herrgottwiesgasse has since expanded to include another location on Paula-Wallisch-Straße, and

**EET Doubles Efficiency and Extends Lifetime using EPC GaN FETs in Latest Balcony Power Solution**

**EET SOLAR POWER FOR EVERY HOME**

**EPC2204**  
100 V, 6 mΩ  
3.75 mm<sup>2</sup>

**EPC**  
EFFICIENT POWER CONVERSION

EET Adopts EPC GaN for innovative balcony power plant solution

The advertisement features a background image of a man on a balcony with solar panels. The EET logo is prominently displayed in the center. The EPC logo is in the bottom right corner. The text highlights the benefits of using EPC GaN FETs in their latest balcony power solution.

the once small team now consists of nearly 80 people. By adopting state-of-the-art technology, EET will be the leading innovator for power electronics in the field of renewable energies.

Visit our web site: <https://www.eet.energy/>

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