



Jinko ESS Liquid Cooling Solution of Micro-grid AC- coupled System

250kW/645kWh Li-ion BESS Project in Lebanon

Case Study

Project Overview

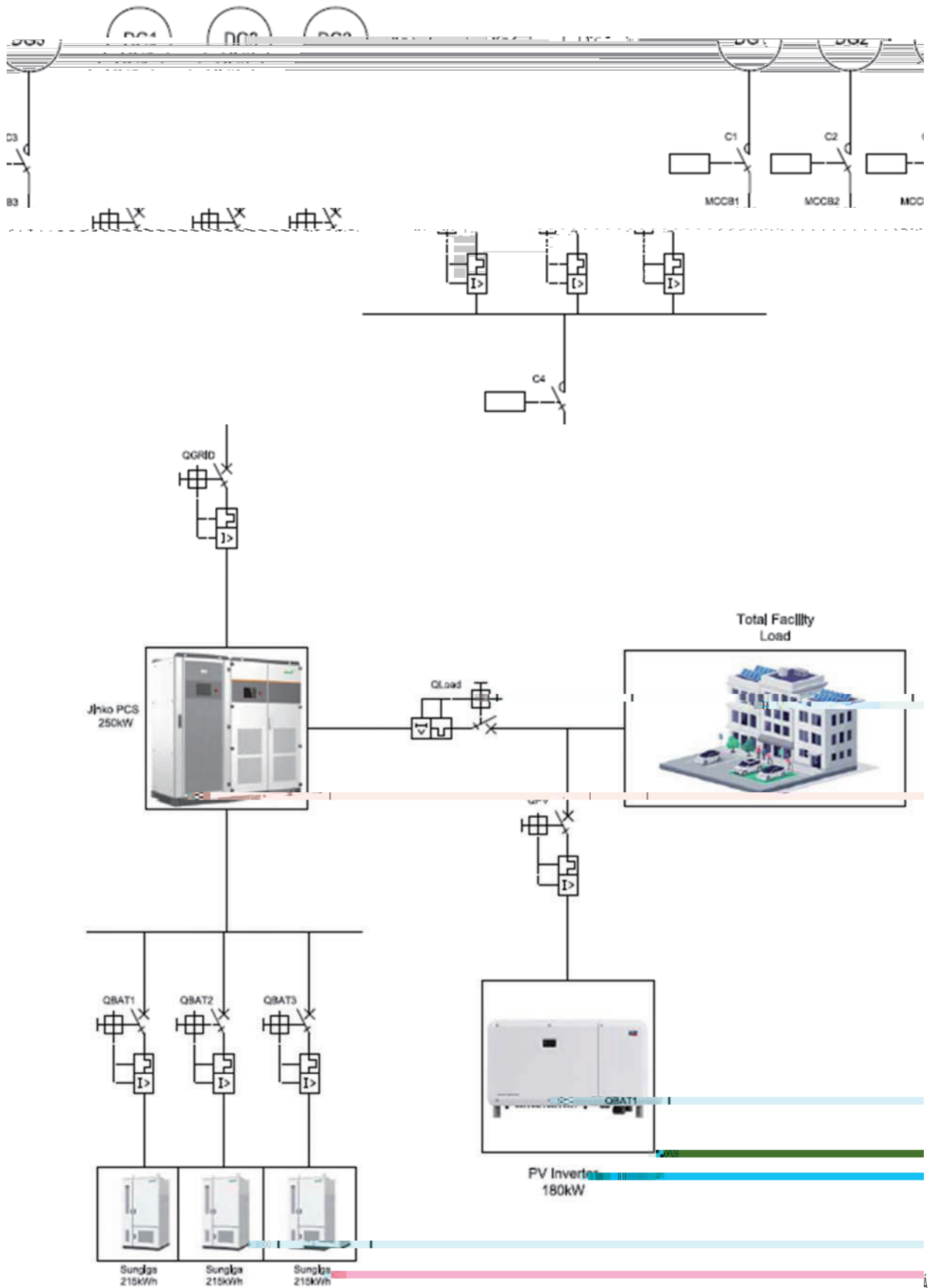


Fig. 1 Single Line Diagram of Micro-grid AC-Coupled System

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Fig. 2 BMS Communication Topology

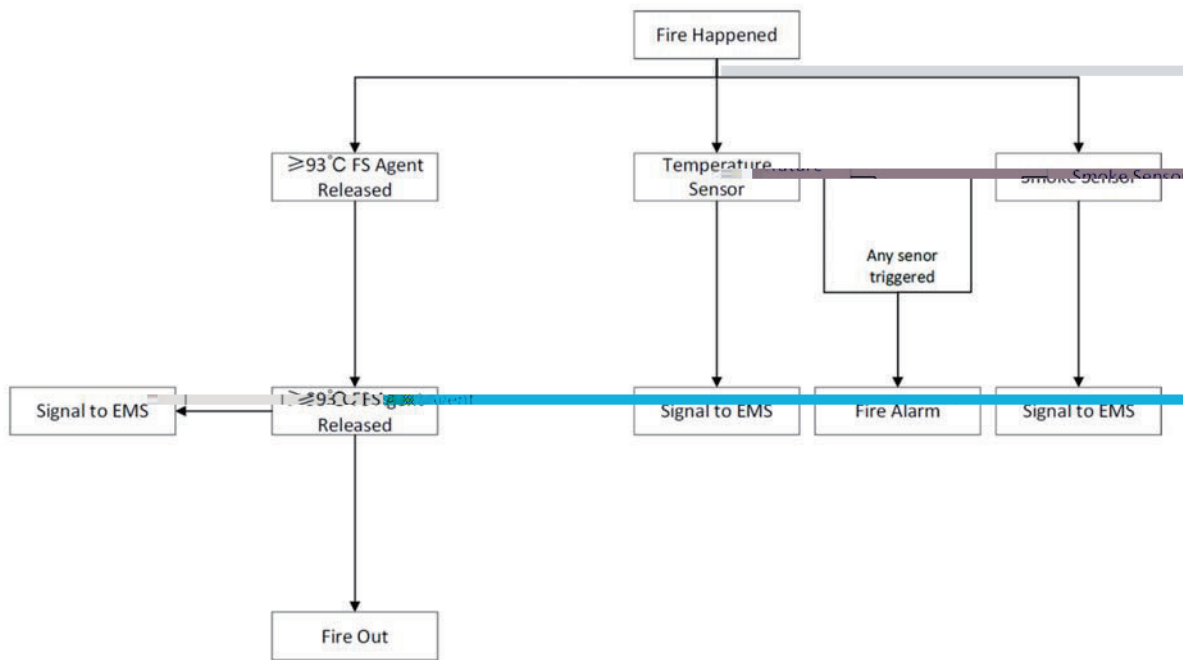


Fig. 3 FSS Workflow



Fig. 4: PCS Single Line Diagram

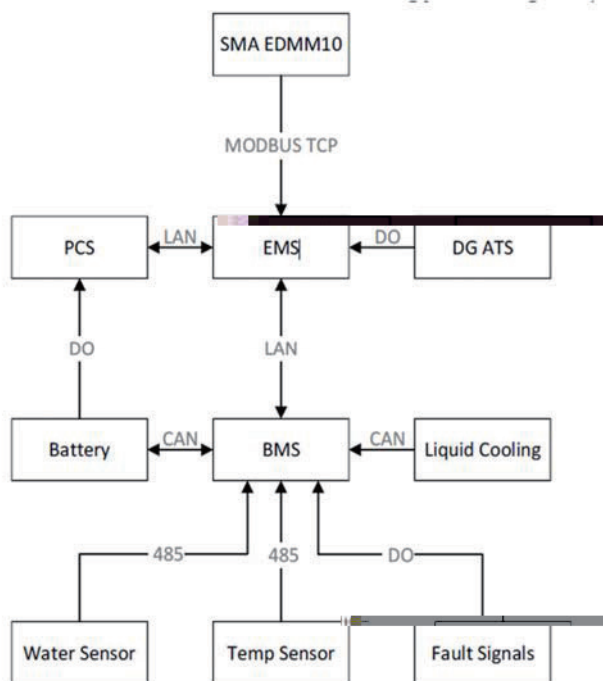


Fig. 5: EMS Communication Topology

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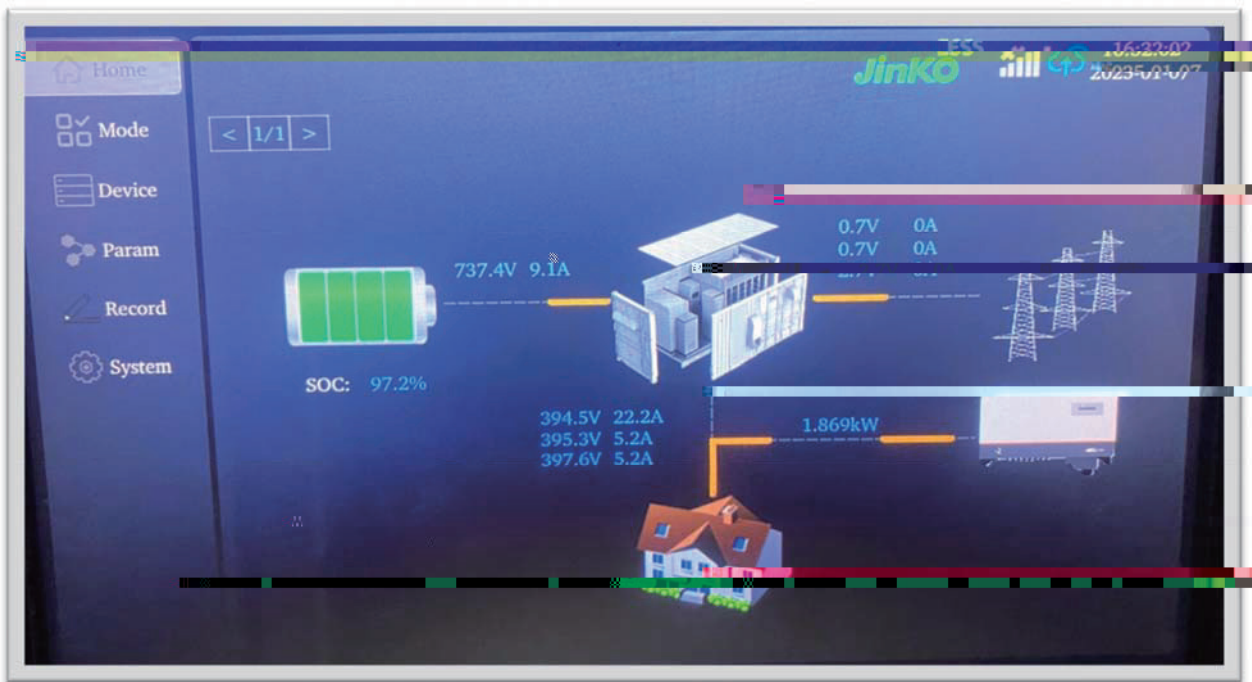


Fig. 5: EMS HMI Display

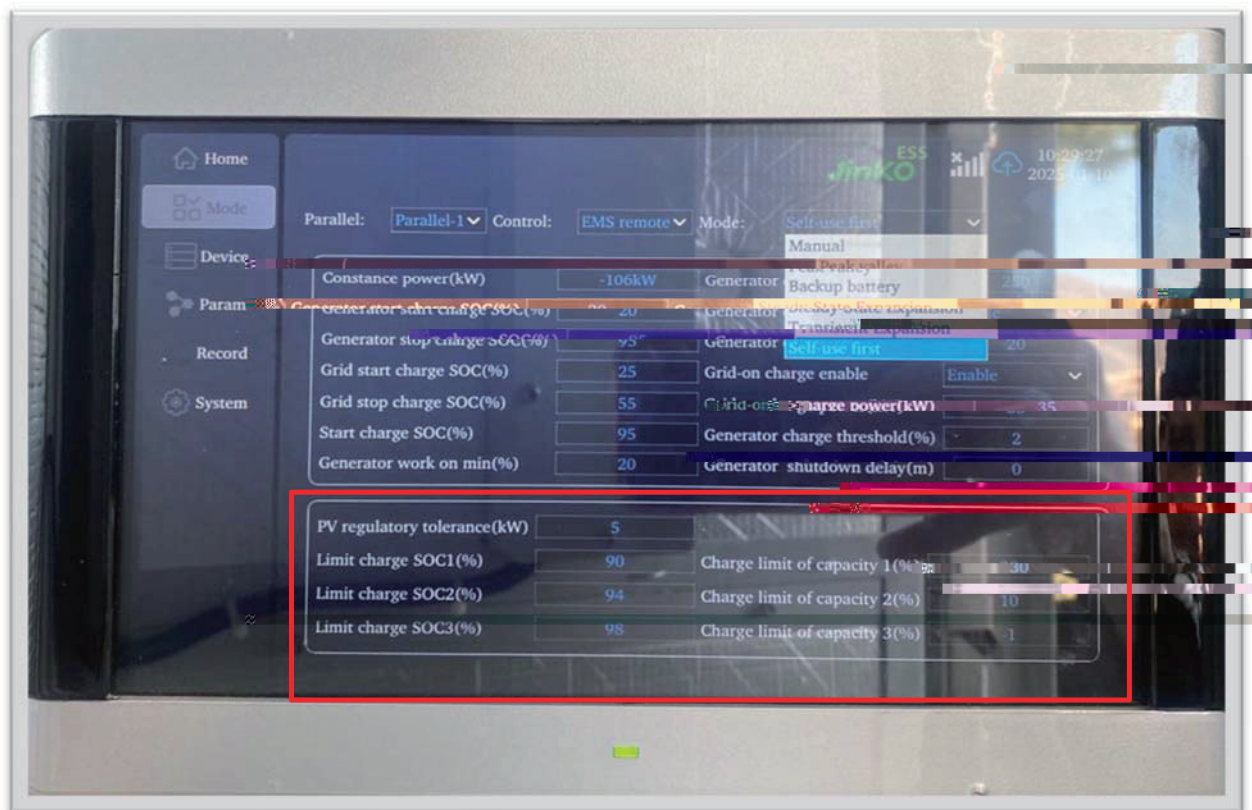


Fig. 6: EMS PV Inverters Power Limit Thresholds.

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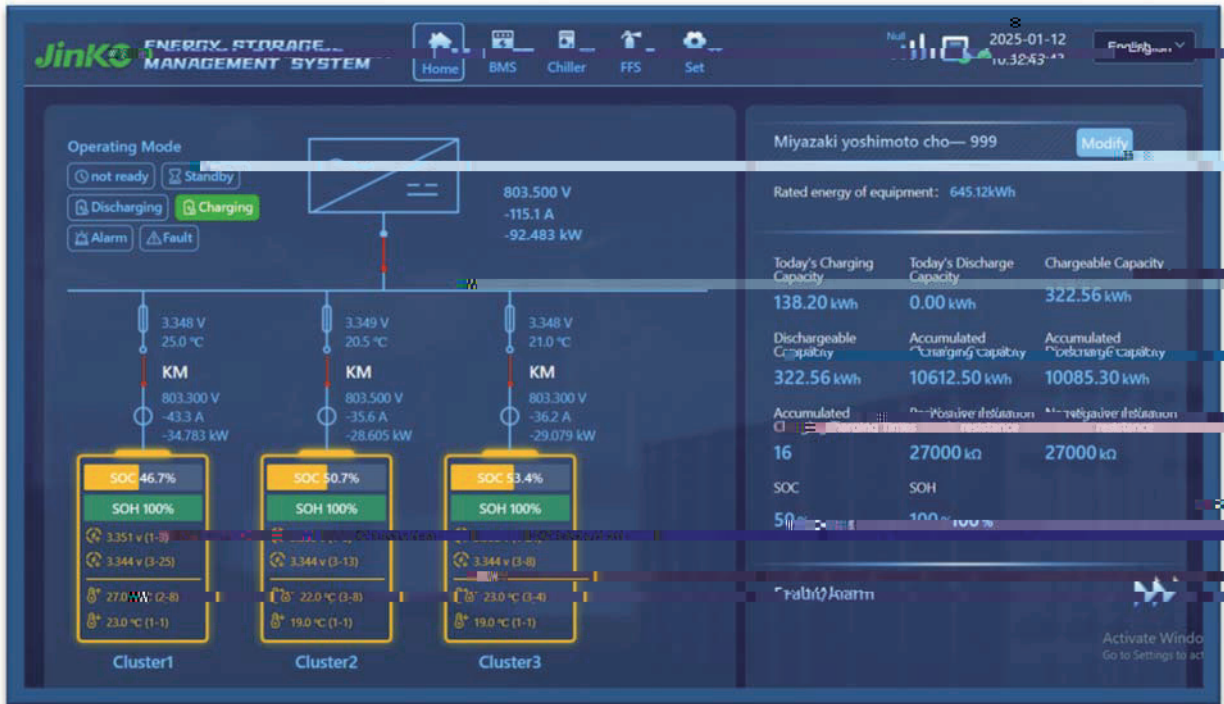


Fig. 6: SCU Cloud Monitoring Display



Fig. 7: System IoT Router

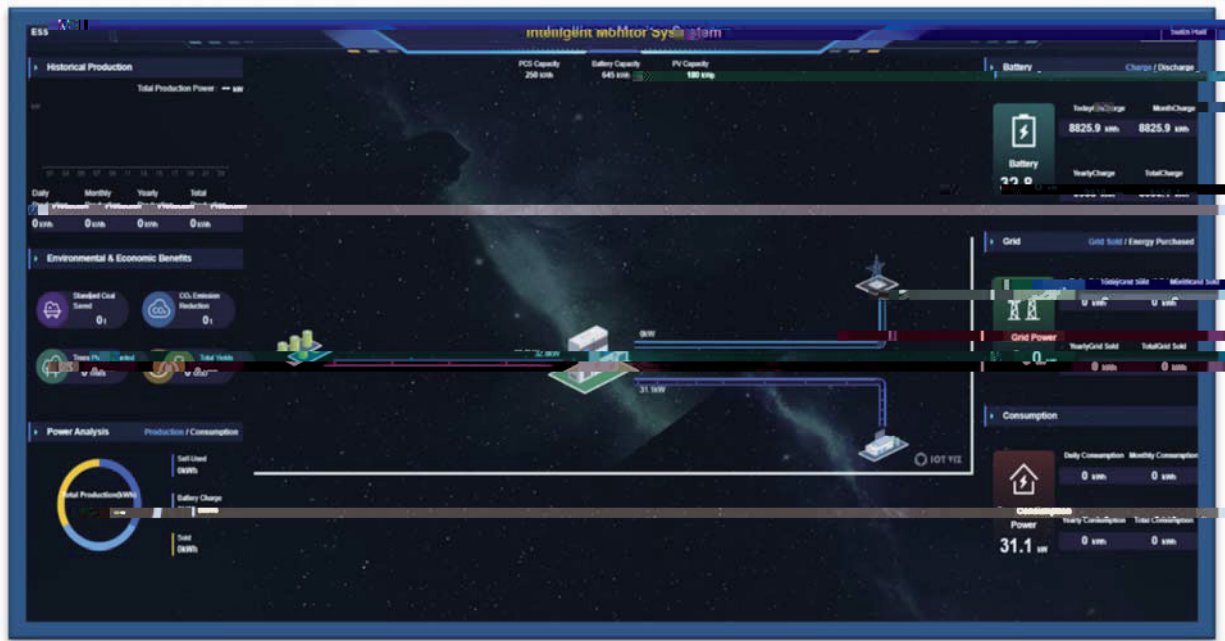


Fig. 8: EMS Cloud Monitoring Platform

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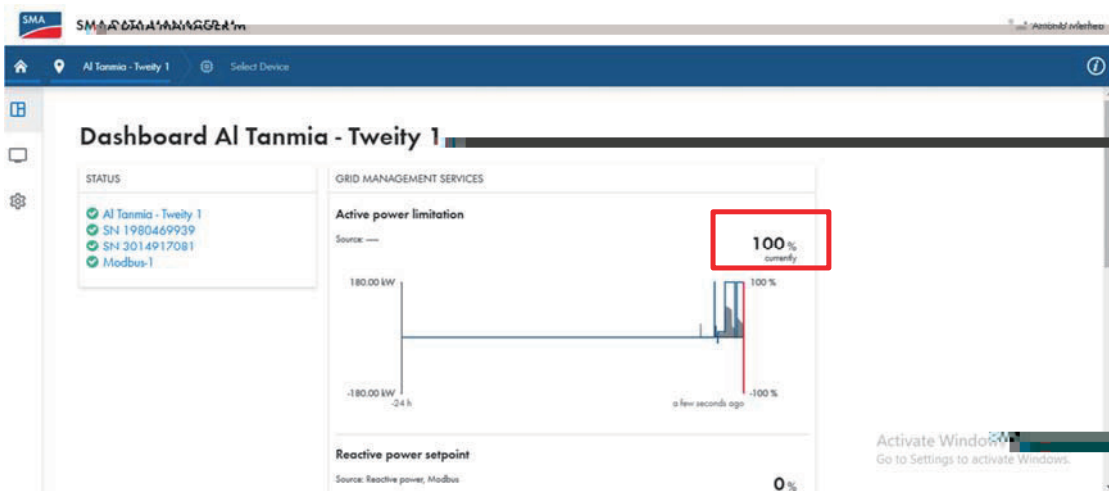


Fig. 9: SMA Monitoring platform showing 100% setpoint received from EMS

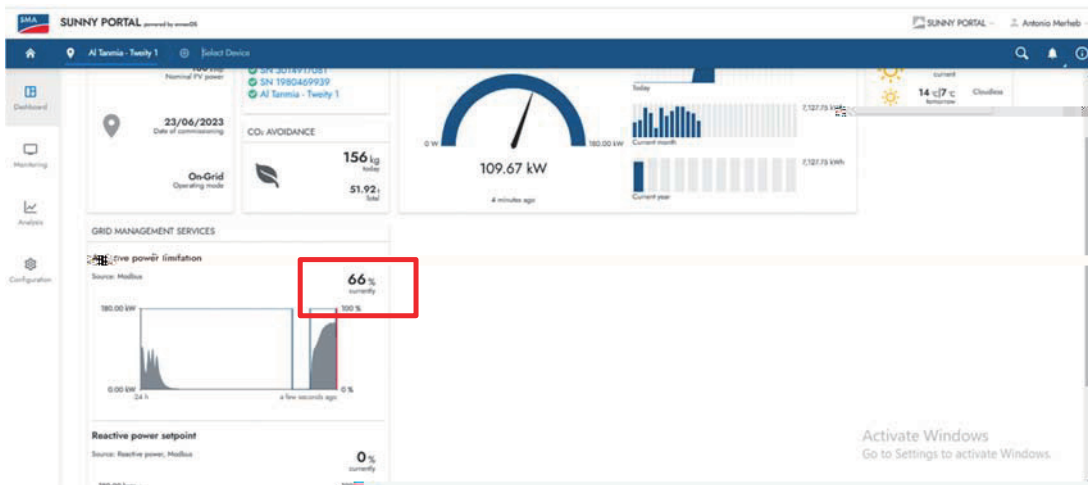


Fig. 10: SMA Monitoring platform showing 66% setpoint received from EMS

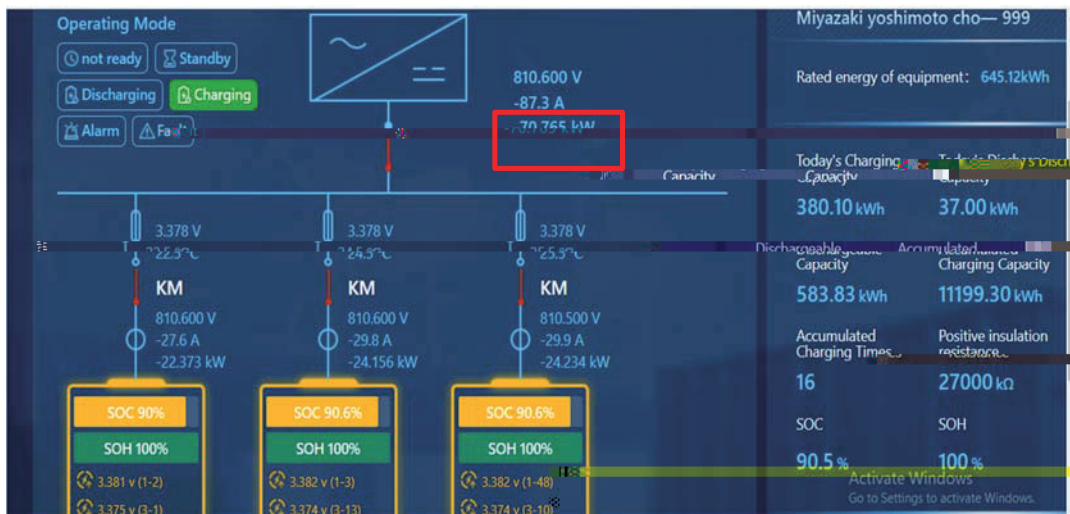


Fig. 11: SCU Monitoring showing charging power limit at 90% SOC



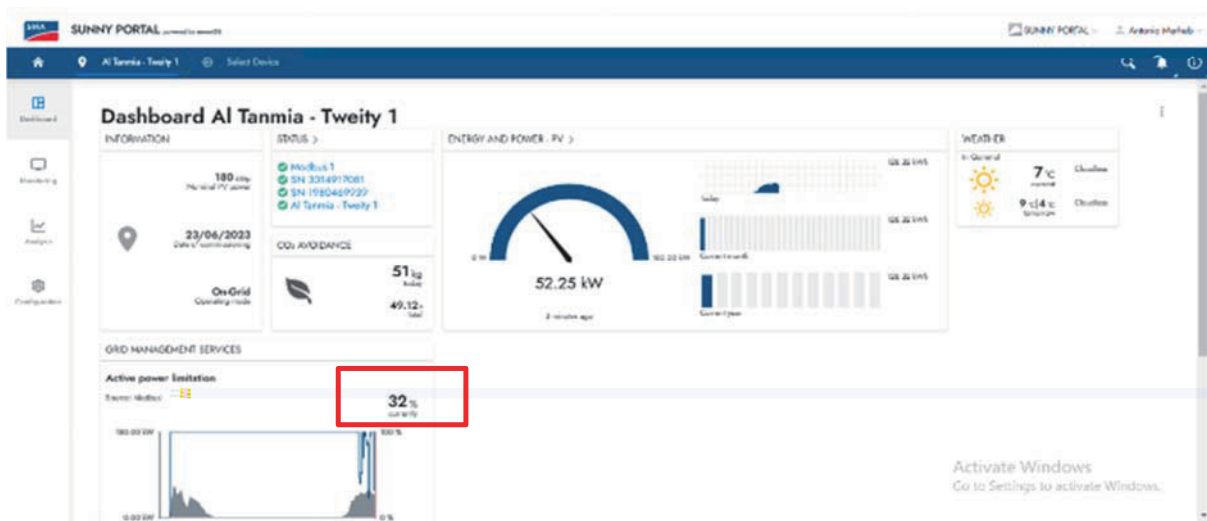


Fig. 12: SMA Monitoring platform showing 32% setpoint received from EMS

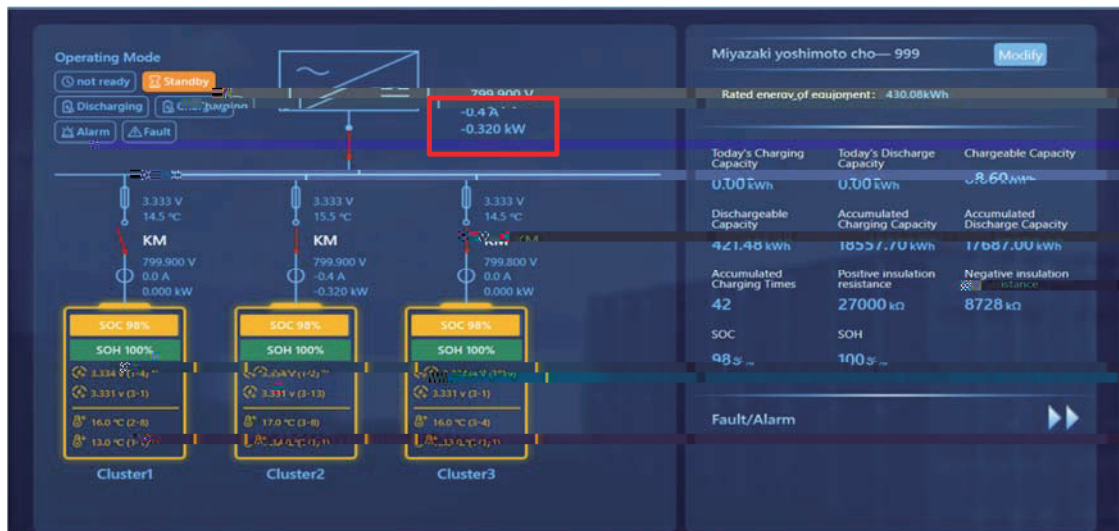


Fig. 14: SCU Monitoring showing charging power limit at 98% SOC

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