



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

Case Study

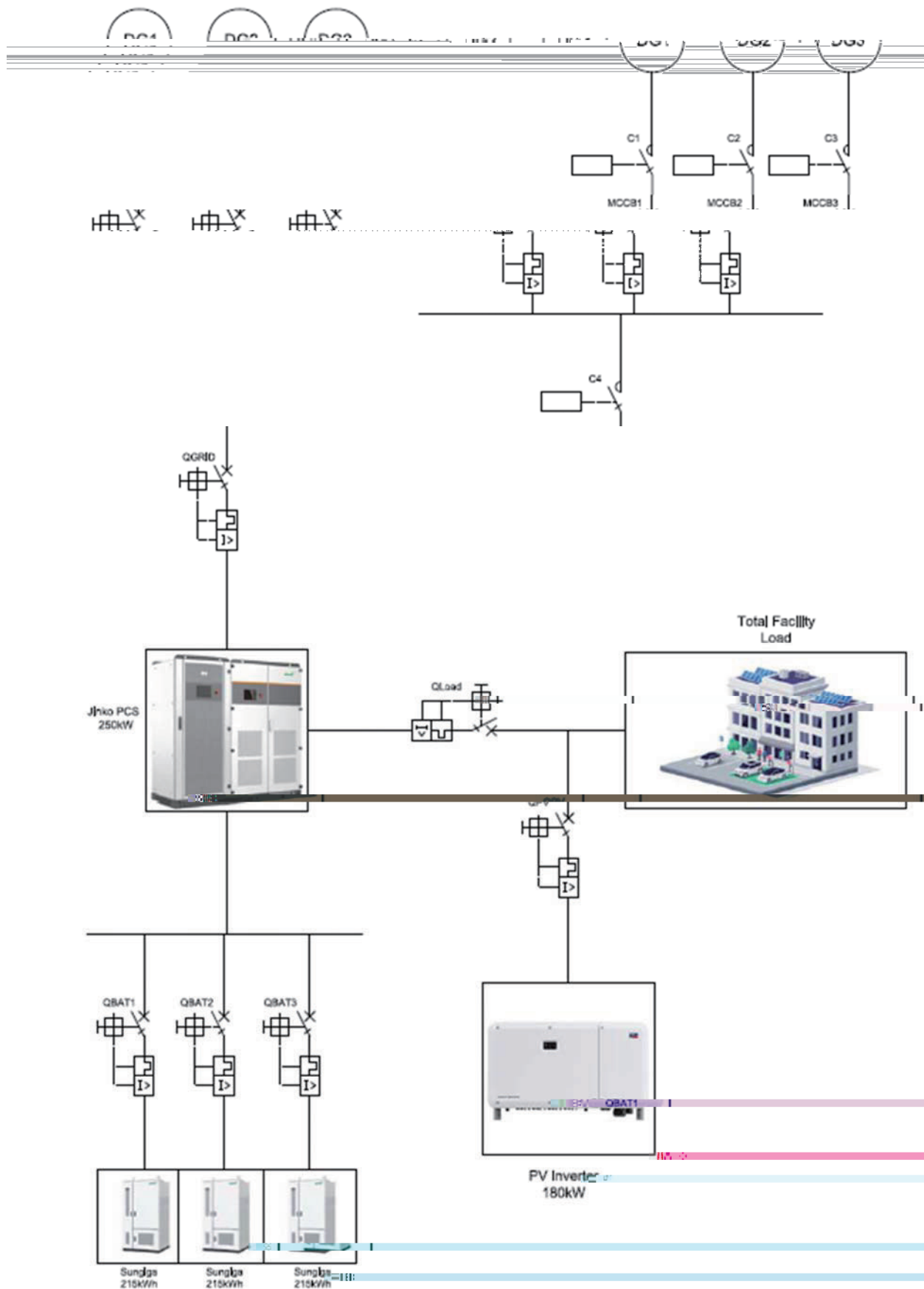


Fig. 1 Single Line Diagram of Micro-grid AC-Coupled System

Fig. 2 BMS Communication Topology

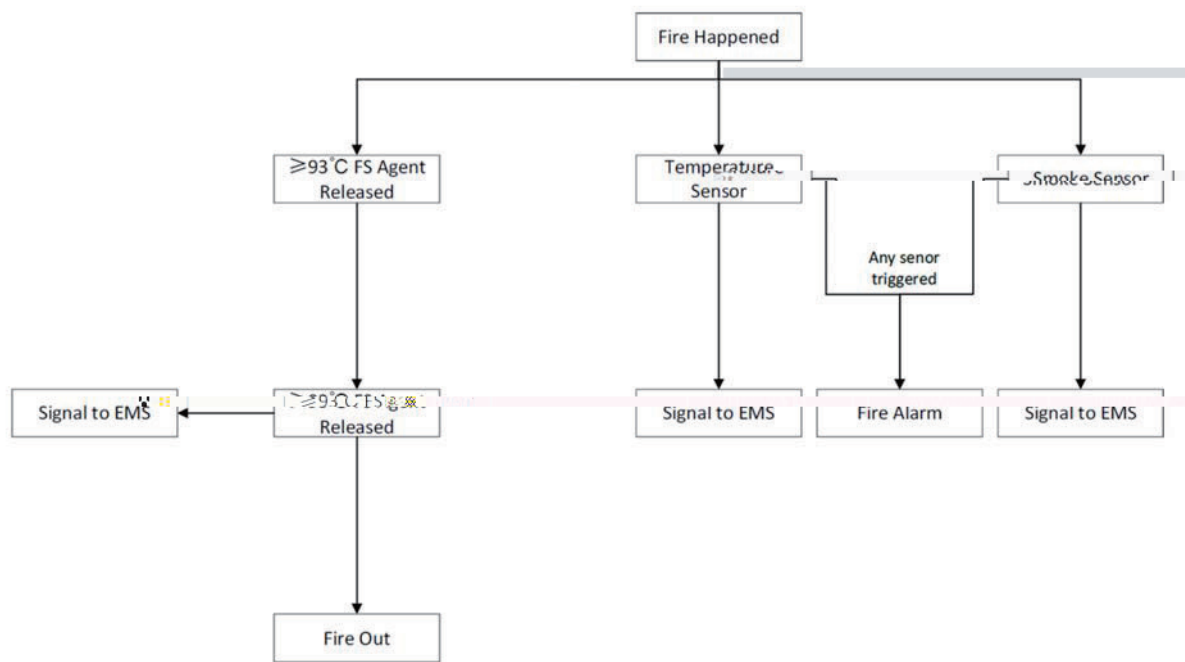


Fig. 3 FSS Workflow



Fig. 4: PCS Single Line Diagram

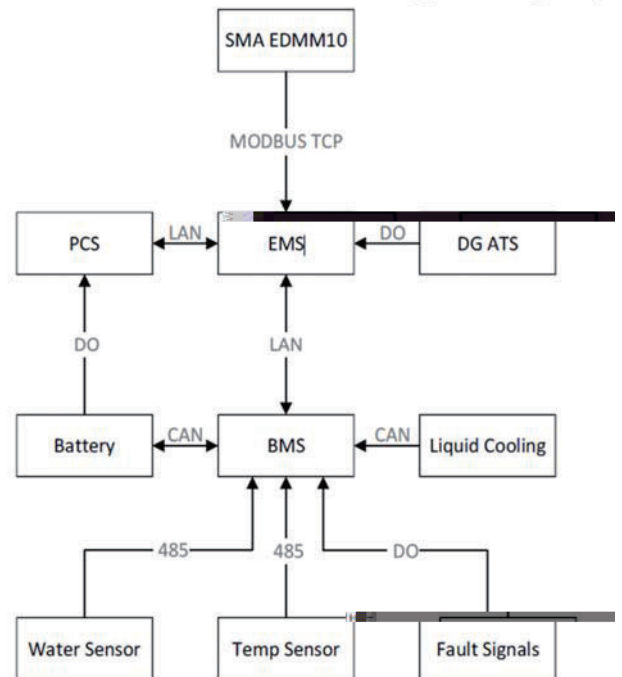


Fig. 5: EMS Communication Topology

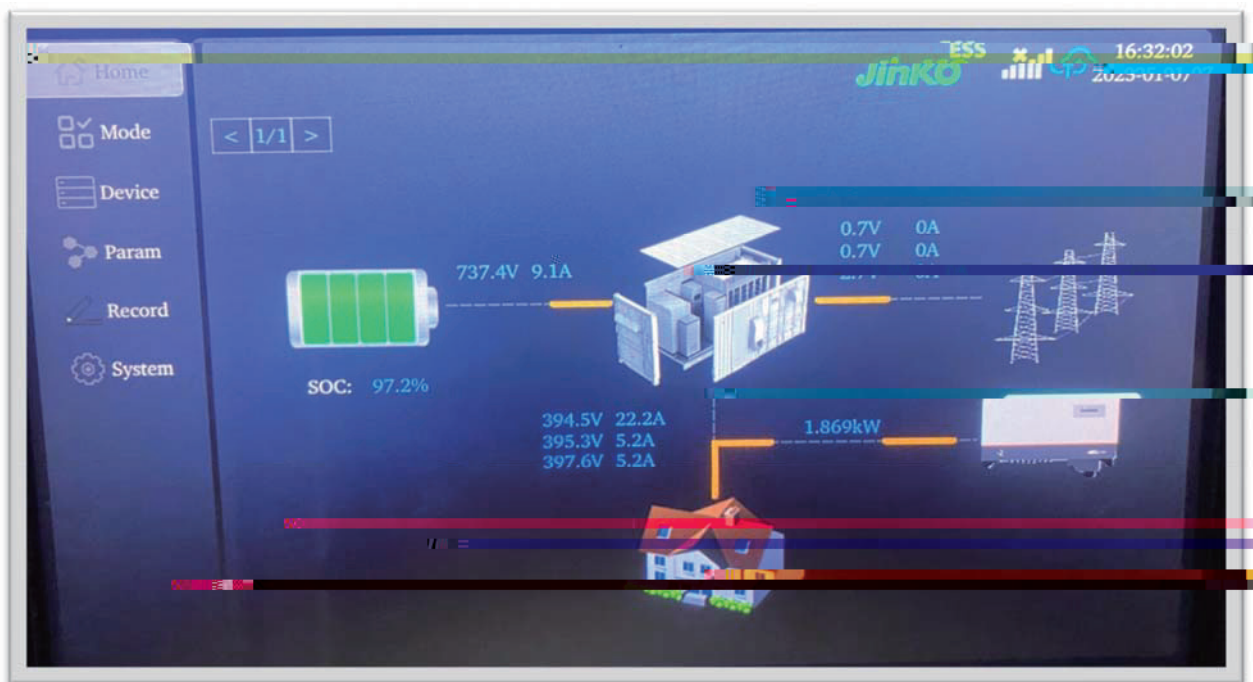


Fig. 5: EMS HMI Display

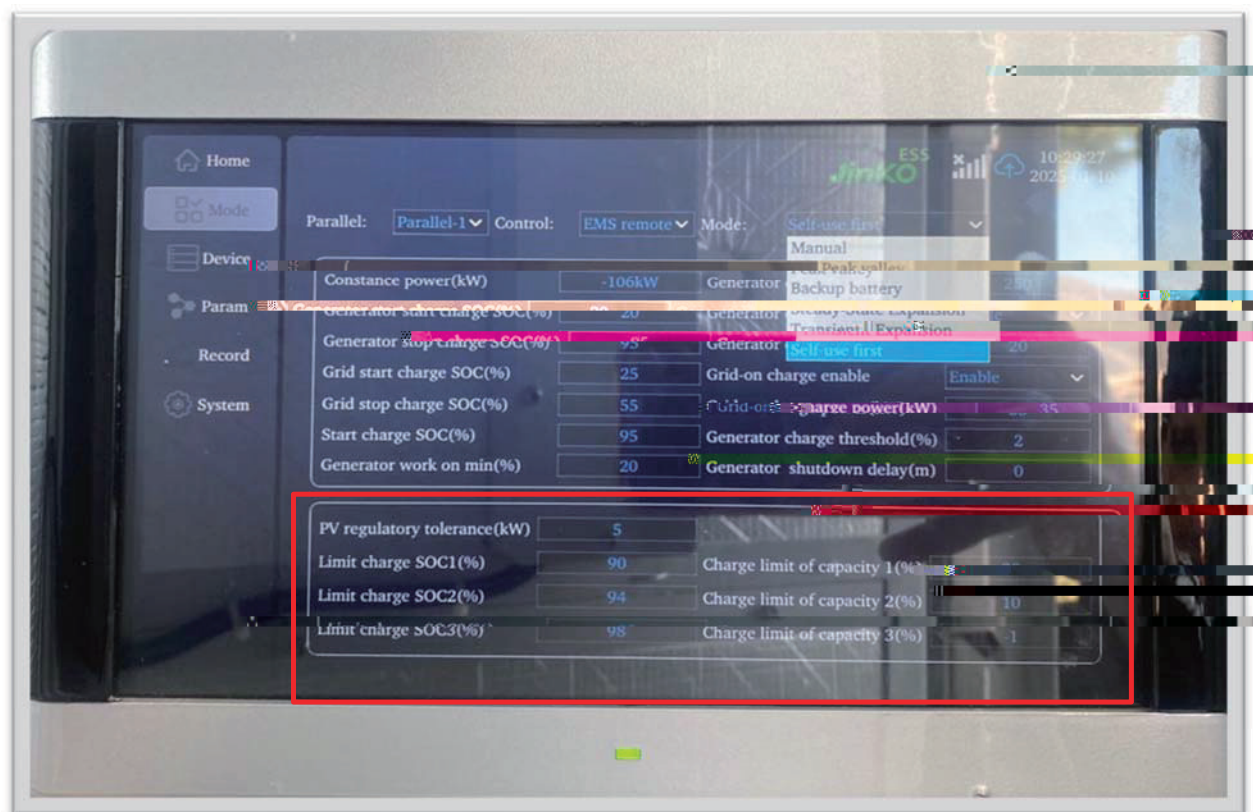


Fig. 6: EMS PV Inverters Power Limit Thresholds.

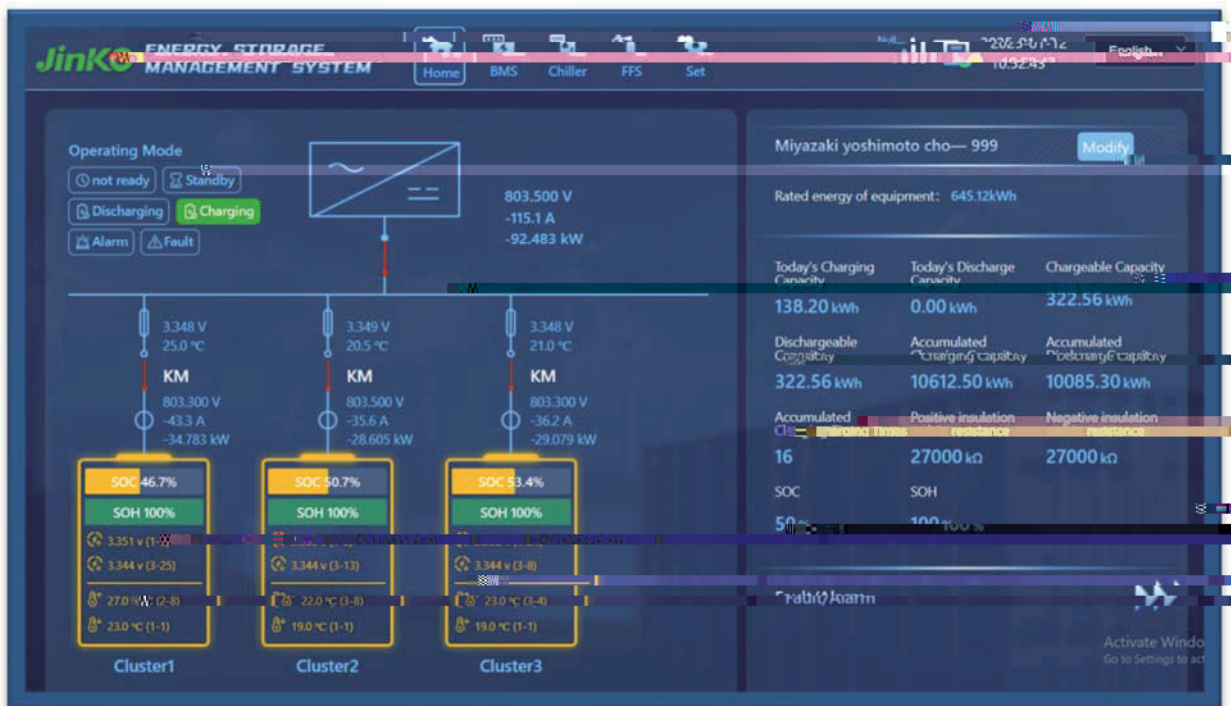


Fig. 6: SCU Cloud Monitoring Display



Fig. 7: System IoT Router

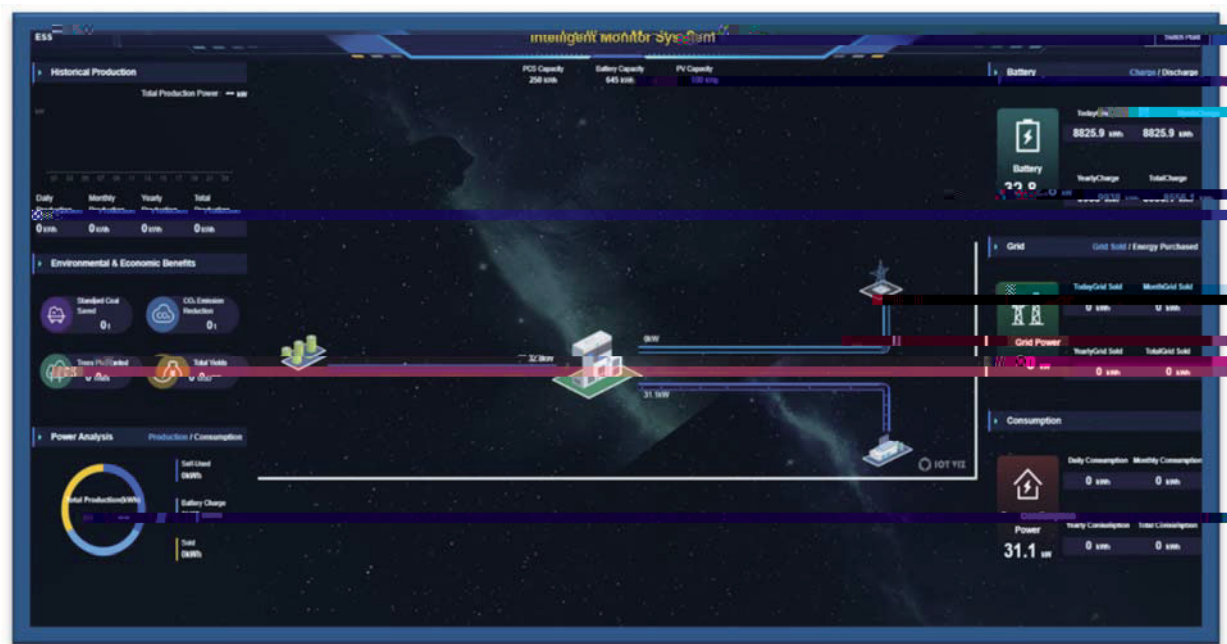


Fig. 8: EMS Cloud Monitoring Platform

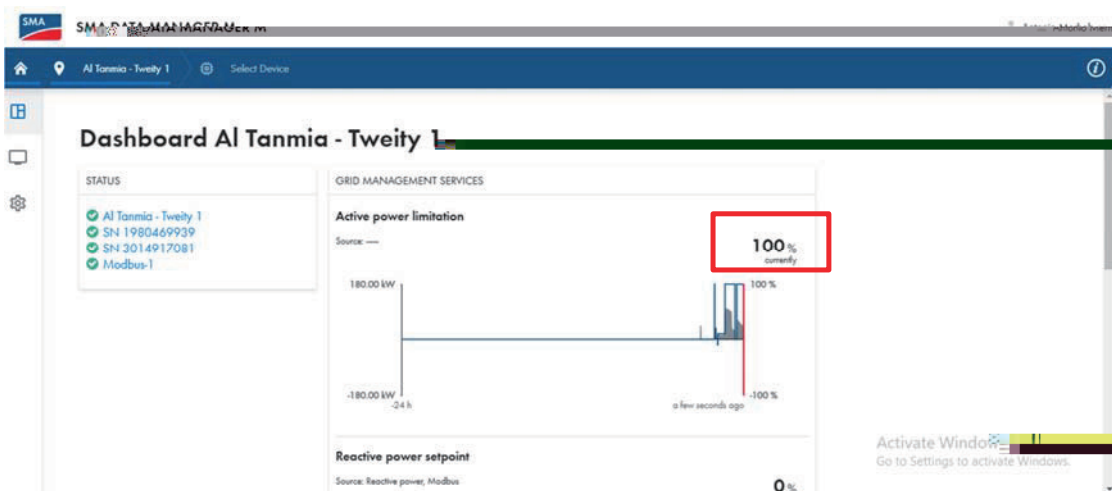


Fig. 9: SMA Monitoring platform showing 100% setpoint received from EMS

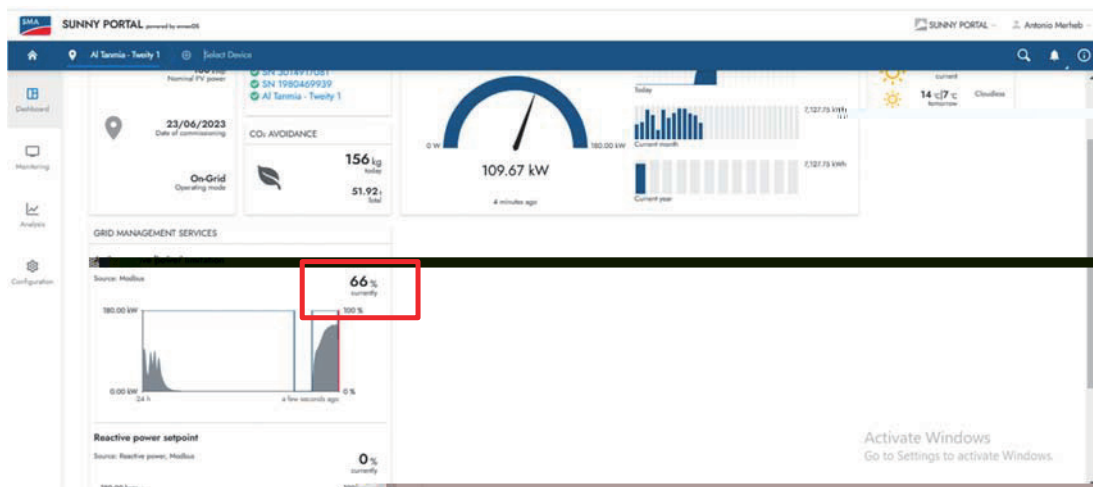


Fig. 10: SMA Monitoring platform showing 66% setpoint received from EMS

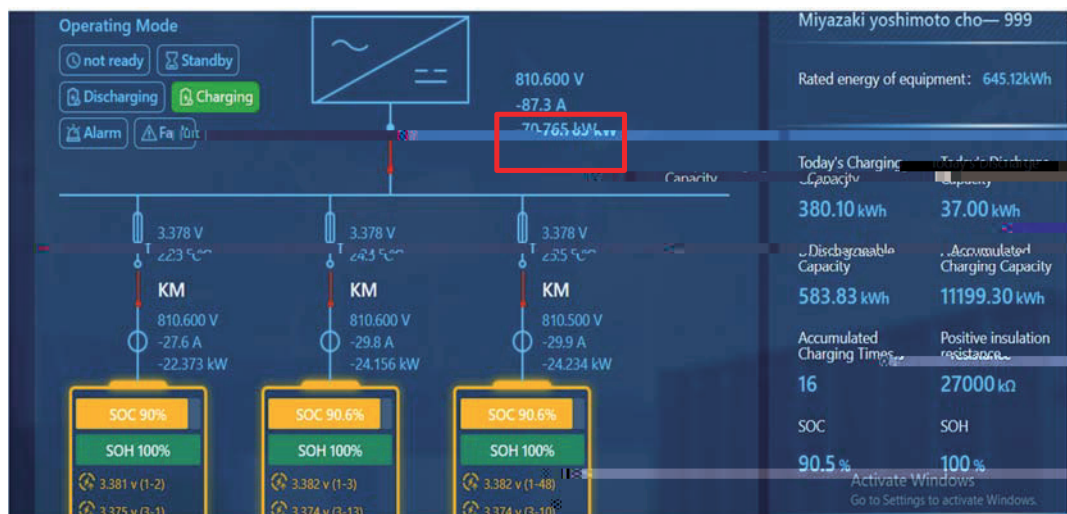


Fig. 11: SCU Monitoring showing charging power limit at 90% SOC

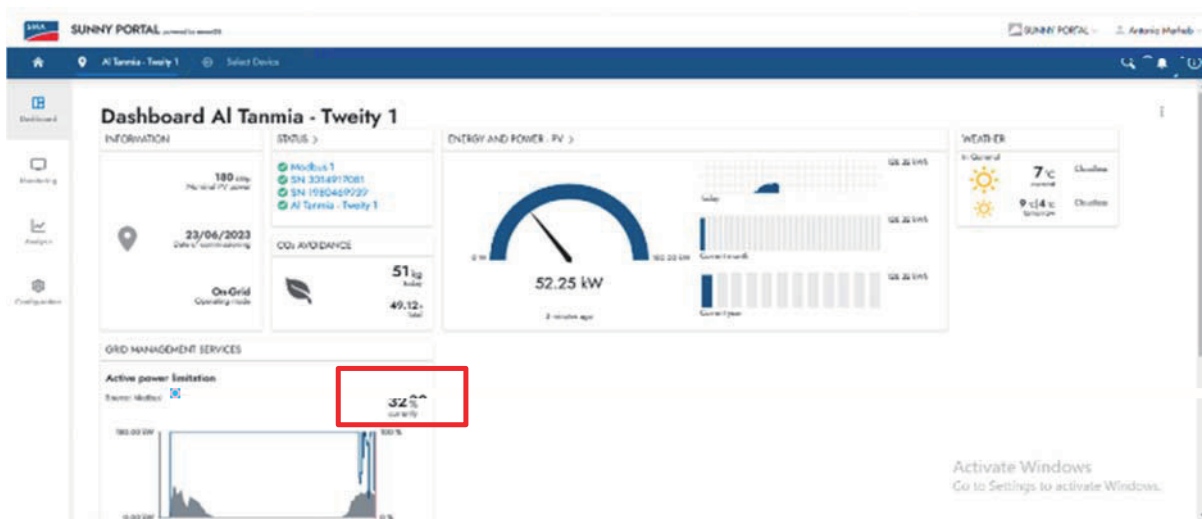


Fig. 12: SMA Monitoring platform showing 32% setpoint received from EMS

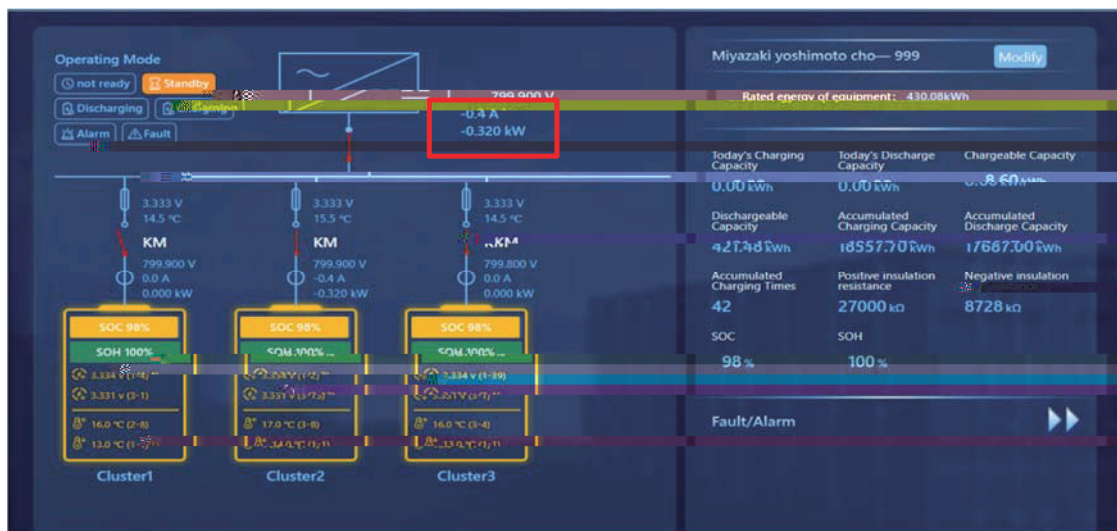


Fig. 14: SCU Monitoring showing charging power limit at 98% SOC



* The report serves as a general overview and is subject to updates by Jinko ESS. Jinko ESS reserves the right to modify the content and holds the final authority in its interpretation.



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