



CAPABILITY OVERVIEW

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VELORA

Solar PV & Battery Systems Capability Overview

Engineered solar PV and lithium battery storage systems —
directly supplied with full documentation.

RANGE

1 kWp – > 1 MWp

STORAGE

5 kWh – 1 MWh

STANDARD

IEC 61215 · IEC 62109

Engineering-Driven Supply.

Velora Engineering & Trading PLC · Addis Ababa, Ethiopia · www.veloraet.com

1. Overview

Velora supplies engineered solar PV and battery energy storage systems for commercial, institutional, healthcare and rural-infrastructure projects across Ethiopia. Systems are configured from established Tier-1 manufacturers and delivered with submission-ready technical documentation and compliance certificates suitable for direct purchase and donor-funded procurement.

2. System Range

Small (1 – 10 kWp)	Off-grid homes, rural clinics, telecom shelters and remote sites.
Mid (10 – 100 kWp)	Commercial rooftops, schools, health centres and SME facilities.
Large (100 – 1000 kWp)	Hospitals, factories, agro-processing and institutional campuses.
Utility (> 1 MWp)	Ground-mount, hybrid and IPP-grade installations.
Battery Storage	5 kWh – 1 MWh lithium-iron-phosphate (LFP) systems.

3. Key Components

PV Modules	Monocrystalline PERC / TOPCon / bifacial · 450 – 700 Wp
Inverters	String, hybrid and central inverters (Sungrow / Huawei / SMA class)
Battery Systems	LFP modular racks · BMS-managed · IP55 enclosures
Mounting	Aluminium rooftop · galvanised ground-mount · ballasted systems
Protection	DC/AC combiner boxes · SPD · isolators · earthing kit
Monitoring	Remote SCADA / cloud-based portal with alarms

4. Applications

H	Healthcare Facilities Solar + storage for hospitals and clinics requiring resilient power.	I	Institutional Campuses Schools, universities and government compounds.
C	Commercial Buildings Rooftop generation for offices, retail and warehousing.	R	Rural Electrification Off-grid and mini-grid systems for villages and clinics.
A	Agro-Processing Pumping, cold storage and processing loads.	T	Telecom & Remote Sites Hybrid PV-battery-DG for tower and edge sites.

5. Compliance & Standards

- IEC 61215 / IEC 61730 — PV module performance and safety qualification.
- IEC 62109 — Safety of power converters for use in PV systems.
- IEC 62619 / UN 38.3 — Safety requirements for lithium battery systems.
- IEC 61724 — PV system performance monitoring.
- IEC 60364-7-712 — Electrical installations for PV power supply systems.



6. Strengths

E	Engineered Sizing PV array, inverter and storage matched to load profile and site.	D	Documentation Discipline Datasheets, single-line diagrams and compliance certificates.
L	Local Delivery Coordinated freight, customs and on-site logistics into Ethiopia.	S	Commissioning Support OEM-aligned commissioning and operator handover.

Direct supply of engineered solar PV and battery systems — submission-ready and compliant with international standards.

Authorized Signatory
Velora Engineering & Trading PLC
Addis Ababa, Ethiopia