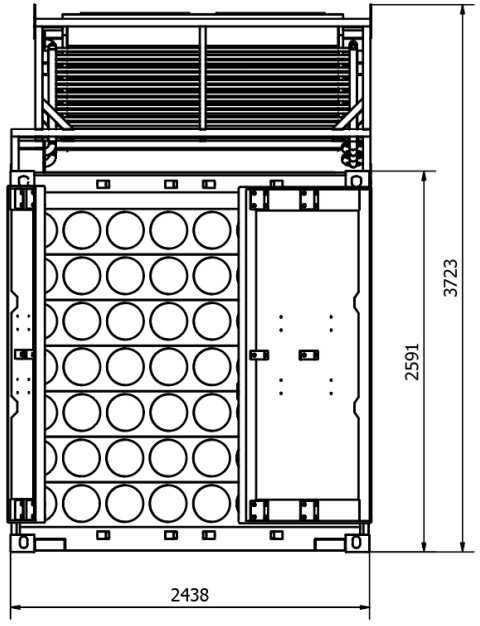
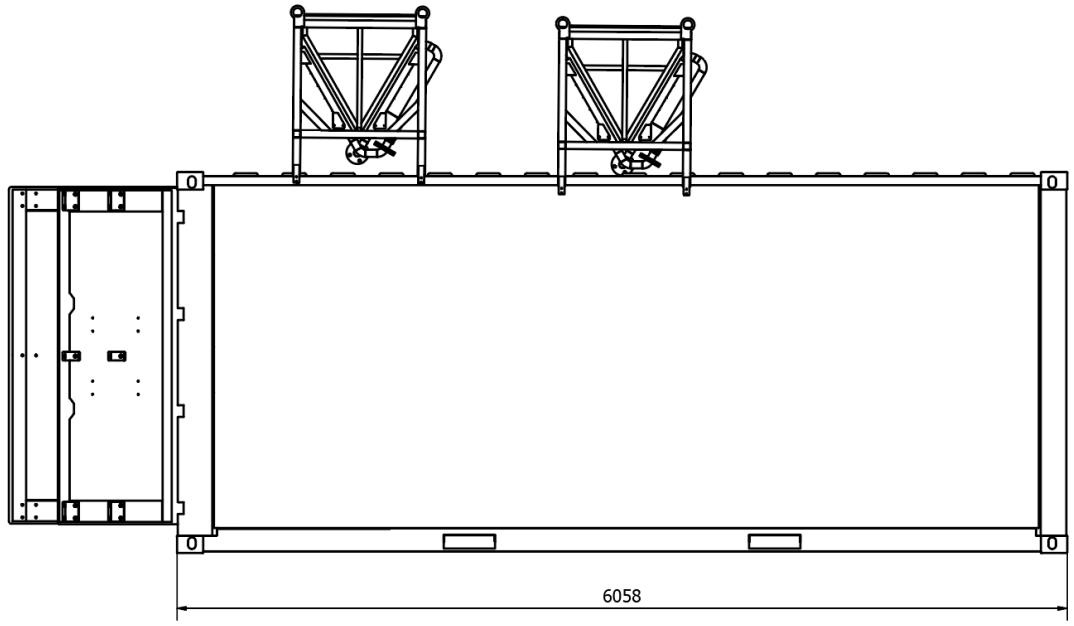
Containerised Metal Hydride Storage

Hydrogen storage capacity	50 kg
Charging pressure	30 bar
Discharging pressure	≥ 11 bar
Inlet Hydrogen Purity	Min 5.0 (99,999%)
Nominal charging flow	55 Nm^3/h

Nominal discharging flow	50 Nm^3/h
System location	Outdoor
Ambient temperature range	-10 to +40 ˚C
Environment	Industrial
Particulate Filter	Installed



Front view



Side view

Integration

Containerised systems extend the modular storage tank platform into fully integrated units for industrial deployment. All subsystems, including manifolding, thermal management, and monitoring, are pre-integrated within the container.

Hydrogen release depends on thermal conditions. Higher flow can be achieved with controlled heating when required.

Thermal conditions and hydrogen release

Hydrogen desorption is an endothermic process, so the delivery rate is influenced by thermal conditions. Ambient heat can contribute to hydrogen release, while external heating can be used to increase the desorption rate when higher flow is required.