



The 6164 is a resistive reactive load bank with capacities up to 1175kVA and a wide option of voltages. Built with a heavy duty, welded construction and equipped with SIGMA control for precision load testing in tough environments.

Capacity Rating (kVA @ 0.8pf)

Product Code	3ph Loading @ 0.8pf							1ph Loading @ 0.8pf						Control Circuit
	208V	220V	230V	380V	400V	440V	480V	120	127	230	240	254	277	
6164-0975-DBAB-B2AX	264	295	322	880	975	-	-	58	65	213	232	232	309	380-420V 50Hz 3Ph
6164-1175-HAAD-B2AX	221	247	270	736	816	987	1175	48	54	178	194	194	258	380-420V 50Hz 3Ph 440- 480V 60Hz 3Ph

Load Step Resolution	1kW /2.5kVar (using SIGMA 2)
Overall Tolerance	±2.5% total capacity ¹

¹ Sigma will NOT allow +10% over voltage operation – max short term over V +6%. Sigma offers fully variable power factor capability from 0.00 to 1.00pf.

Performance & Operation

Short Circuit Rating	10kA
Load Duration	100% load, continuous at rated Voltage. 10% above rated Voltage for short periods. ²
Connection Options	Bus Bar: M12 single hole lug, 8 per phase / 4 x PE, 1 x N
Instrumentation Accuracy	Class 0.5
Insulation Voltage - Power Circuit	1000V DC
Control Platform	SIGMA 2

² Short period is defined as 1 hour in 12.

Fan & Control Circuit

Connection External/Internal	External: 32A, 3ph + PE plug & socket conforming to IEC60309-2 Internal: From supply on test
Fan & Control Circuit Consumption	50Hz - Nominal - 15A, 60Hz - Nominal - 20A
Recommended Protection	50Hz - 25A aM style fuse or equivalent, 60Hz - 32A aM style fuse or equivalent

Design

Construction	2mm 'Zintec' steel, folded & welded to form a monoque construction
Elements	Stainless steel, non-finned sheathed elements
Inductors	Iron core, Vacuum impregnated with insulating varnish (Insulation class H)
Finish	Gray RAL7042 - C3 Finish (ISO12944)
Lifting	4 point lift / Forklift pocket
Height	2252mm
Width	1834mm
Length	2524mm
Max Weight	3800kg

Environmental

Ambient Operating Temperature	-10°C to +50°C
Storage Temperature	-20°C to +70°C ³
Degree of Protection	All electrical enclosures to IP54
Operating Humidity	90% relative humidity, non-condensing
Operating Altitude	1000m ASL
Required Airflow (@50Hz)	9.5m³/sec
Required Airflow (@60Hz)	11.5m³/sec
Average Air Temperature Rise	95°C at outlet
Hot Air Exhaust	Vertical
Noise Level	80dBA ±3dBA @ 50Hz, taken 3 meters from load bank at 90° to airflow direction.

³ Battery life in the SIGMA LT control panel may be reduced if stored outside of 0°C to +30°.

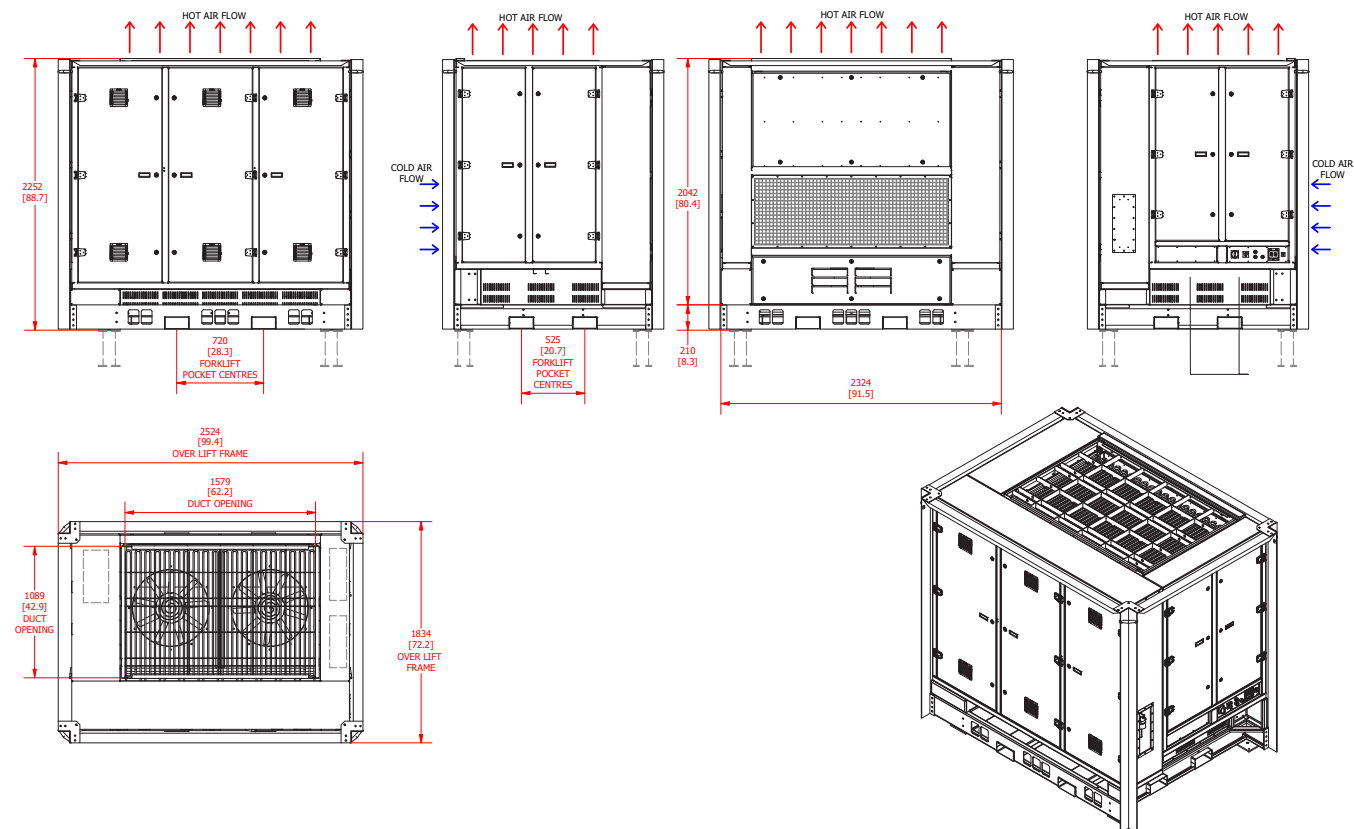
Standards & Compliance

Standards	  
Warranty	24 months

Optional Accessories

PVC Cover	PR01281
Sigma Handheld and 10m Lead	EI02603

Outline Drawing / Connection Diagram



All dimensions are in millimeters.
Specifications subject to change without notice.