

Part Number: KWL-INV-2250-24-D-1.5C-M-SD-A-X-X-I | Version Date: November 2020



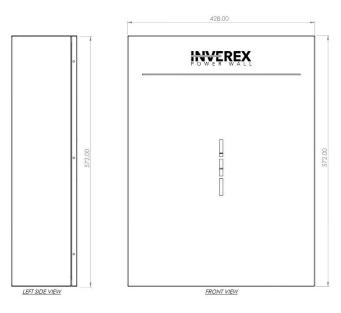


The INVEREX Power Bank is supercapacitor-based wall mount storage that uses supercapacitors as storage cells instead of chemical cells. It has balancing, control and charge retention algorithms that control the operation of the supercapacitor-based Modules, making INVEREX Power Bank a safe, efficient and effective alternative to chemical batteries wherever chemical batteries are deployed.

PERFORMANCE SPECIFICATIONS		
DC Energy	2250WH	
DC Voltage (Nominal)	$24V_{dc}$	
Technology	Supercapacitors	

CHARGE SPECIFICATIONS	
Maximum Charge Current (5 sec)	560A (6C)
Recommended Charge Current	140A (1.5C)
Full Charge Voltage	28 V _{dc} (automatic)
Maximum Charge Voltage Tolerance	30V _{dc} (automatically adapts to charger settings)

DISCHARGE SPECIFICATIONS	
Maximum Discharge Current (5 sec)	560A (6C)
Maximum Discharge Current (Continuous)	140A (1.5C)
Depth of Discharge Voltage @ 0.5C	20V _{dc}



MECHANICAL SPECIFICATIONS		
Dimensions (W x H x D) mm	428 x 572 x 150	
Weight (Kg)	41	
Module Casing Material	GI Powdered	
Terminal Type	Anderson Connectors	
Mounting Options	Wall Mount	
Enclosure	IP65	

Inverex Power Wall is an OFS (Open Frame Sirius) project carrying Sirius[®] inside.



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SMART FEATURES	
Communication and Connectivity	WIFI & Bluetooth
Alarm	LED and Buzzer alarm in the event of Over/Under-Voltage, Over-Current, Over Temperature

MODULE SERVICE LIFE	
Projected Cycle Life ^{2,3}	12000 cycles
Projected Calendar Life ^{3,4}	8 years
Shelf Life ⁵	10 years
Warehousing	Can be stored at any SOC without affecting cycle life

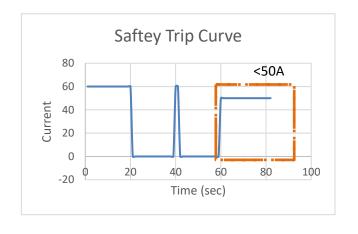
SIRIUS VIEW FOR INVEREX APP		
Module Monitoring	Total Cell Voltage, Individual Cell Voltages, Current, Temperatures, Instantaneous Power, Circuit Breaker Status, SOC and Energy Consumed	

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COMMI	IANCE		
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EN55032:2015, EN55024:2010, EN61000-4-2:2009, EN61000 EN61000:2008+A2:2010

SAFETY PERFORMANCE	
Over/under voltage	Hardware protection, Module shut down
Over Current	Hardware protection, Module shut down
Over temperature	Hardware protection, Module shut down
Short Circuit Protection	10KA, Hardware Protection, Terminal Cut-off
Additional Safety	125A 2P Mechanical Actuated Circuit Breaker
Reverse Voltage Protection	Hardware Protection, the buzzer alarms

SAFETY TRIP CURVE



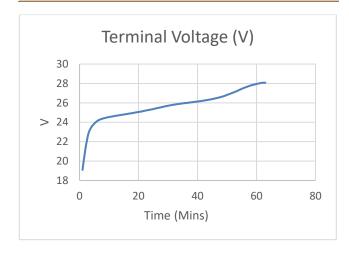
ENVIRONMENTAL SPECIFICATIONS		
Cell Operating Temperature ¹	-10°C to 55°C	
Operating Humidity	Non-Condensing	

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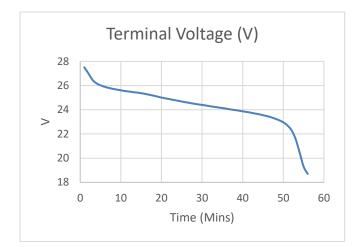


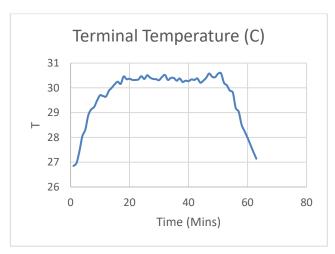
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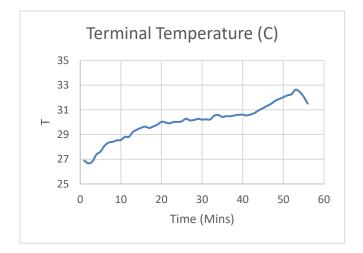
CHARGE SPECIFICATIONS

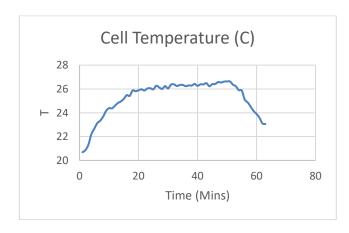


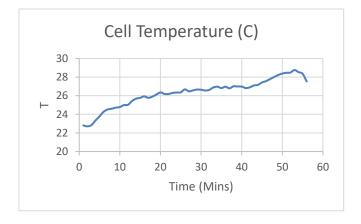
DISCHARGE SPECIFICATIONS













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¹The temperature range indicates the range in which the supercapacitor cells can operate. The performance of the cells may vary if they are continuously operated outside a temperature range of -10°C to 55°C, and/or at C-rates higher than the maximum charge/discharge rate specified in this spec sheet. The operating temperature range of the Module varies based on the application. If the Module is to be operated continuously outside a temperature range of 10°C to 55°C, and/or at C-rates higher than the maximum charge/discharge rate specified in the spec sheet, please consult Kilowatt Labs or its Reseller prior to deploying.

²Projected life of supercapacitor cells. Cycle life will vary if cycled more than 4 times a day.

³Additional terms and conditions, including a limited warranty, will apply at the time of purchase.

⁴Projected Calendar life of supercapacitor cells from the date of first operation.

⁵Shelf life is the life of the Module (in years) from the date it is manufactured to the time it is first operated.

⁶CE certification is completed for supercapacitor cells. Product dimensions are for reference only unless otherwise identified and may change without notice. For critical applications, please contact your Reseller.