



Energy Storage Solutions

48V - 80Ah

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Daksh Solar Batteries

Inverted Energy Das-X battery is a step in our journey to give you optimum performance. It is designed and manufactured after intensive research and study in collaboration with the leading scientists in India. It is simple to install, safe, reliable, and provides the lowest lifetime energy cost for your Solar Products Global technology moulded to fit India's local requirement.

Features & Benefits

Design

Simple Plug & play installation
Modular design

Technology

Propriety & Superior BMS

Performance

Provides high cycle life
Enhanced Durability With IP65
Protection



Technical Specifications | 48V | 80Ah

BATTERY PACK PERFORMANCE

BATTERY PACK				
Working Voltage	Rated V: 48V			
	V Range : 38 - 54V			
Rated Capacity	80Ah			
Battery Power	25°C	3.84	kWh	(100%DOD @ 0.5C rate)
Operating Temperature Range	-10°C to -50°C			
Continuous Charge Current (A)	16A			
Max. Continuous Charge Current (A)	24A			
Continuous Discharge Current (A)	16A			
Max. Continuous Discharge Current (A)	24A			
Storage Temp. Range (recommended)	Optimal ≤35°C			
Weight	≤ 32.25kg			
Self Discharge	30 days	≤ 5% in 25°C		
Cycle Life	More than 2000 times			
	(0.5C charge and discharge, 80% DOD, at room temperature)			
Level of Protection	IP55			

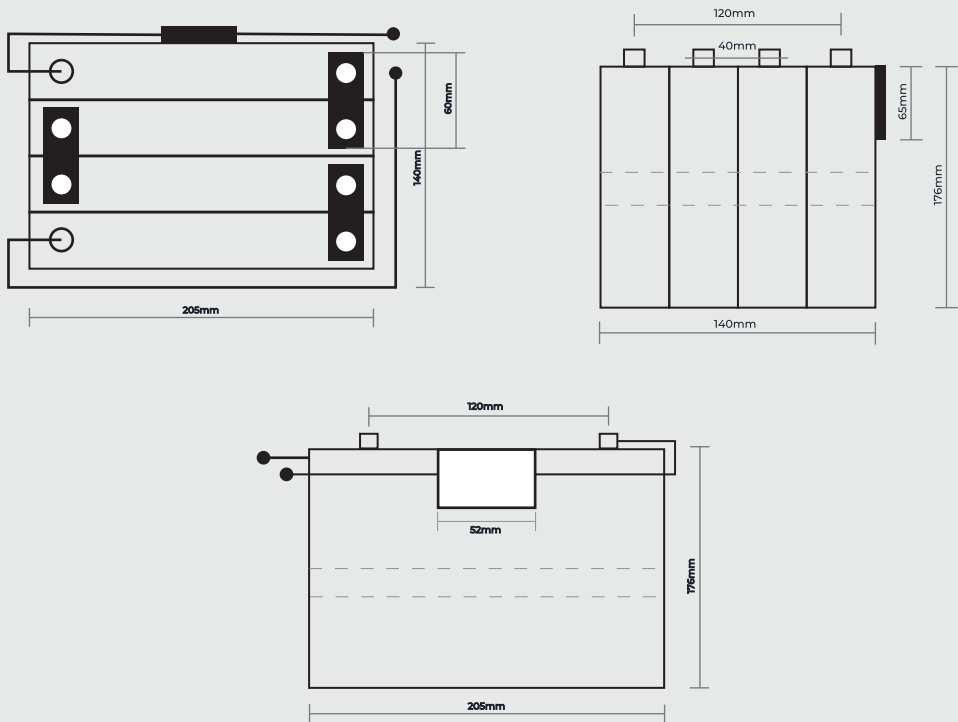
PCB DATA

BATTERY / CELL		
Overcharge Protection	Single cell's over charge protection voltage (V)	3.9 ± 0.025V
	Single cell's over charge remove voltage (V)	3.80±0.05V
Charge Protection	Rated Charge Current (A)	≤24A
	Charge Protection Current	/
Over Discharge Protection	Single cell's over discharge protection voltage (V)	2.0±0.1V
	Single cell's over discharge remove voltage (V)	2.3±0.1V
	Rated discharge current (A)	≤16A
	Discharge Protection current (A)	≥90.4A
	Short Circuit Protection	Yes
	Short Circuit Protection Resume Condition	Disconnect the load
Temperature Protection	Over-temperature Protection Temp.	70°C
	Resume Temperature/ Time	50±25°C / 2ms
Balance	Balanced Voltage (V)	3.55
	Balanced Current (mA)	50-70 mA
Interior Resistance	B-,P- break over Interior resistance (mΩ)	≤ 10mΩ
Current Consumption	Self-consumption (uA)	≤ 60uA

BATTERY PACK CONSTRUCTION

Battery pack 48V 80Ah is made by 15S1P, 15 pcs of 80A-Prismatic battery cells, charge and discharge with same port

Battery Layout Diagram



To learn more about Inverted Energy Storage Solutions, visit www.inverted.in

To speak to an engineer for any technical queries or solution for your Solar Batteries, contact +91 96500 30839 or email info@inverted.in