Hybrid Power

Powerstart 100

- Innovative in energy storage & Power Electronics
- Custom-made solutions
- Complete solution: storage & Power Electronics
- Design and system integration

Features

- Cold temperature performance
- Improves starting performance
- Low internal resistance, high peak current
- Long life cycle
- Integrated individual cell balancing
- Compact, rugged, fully enclosed and IP65
- Extension battery life, downsizing battery
- Approved for heavy-duty vehicles shock and vibration norms

Applications

- Diesel engine cranking & board net stabilization
  - (cold climate) transportation
  - Automotive
  - Marine
  - Industrial
  - Railway

Mechanical Data

Length x Width x Height
459 x 259 x 182 mm
Approx. 11 kg

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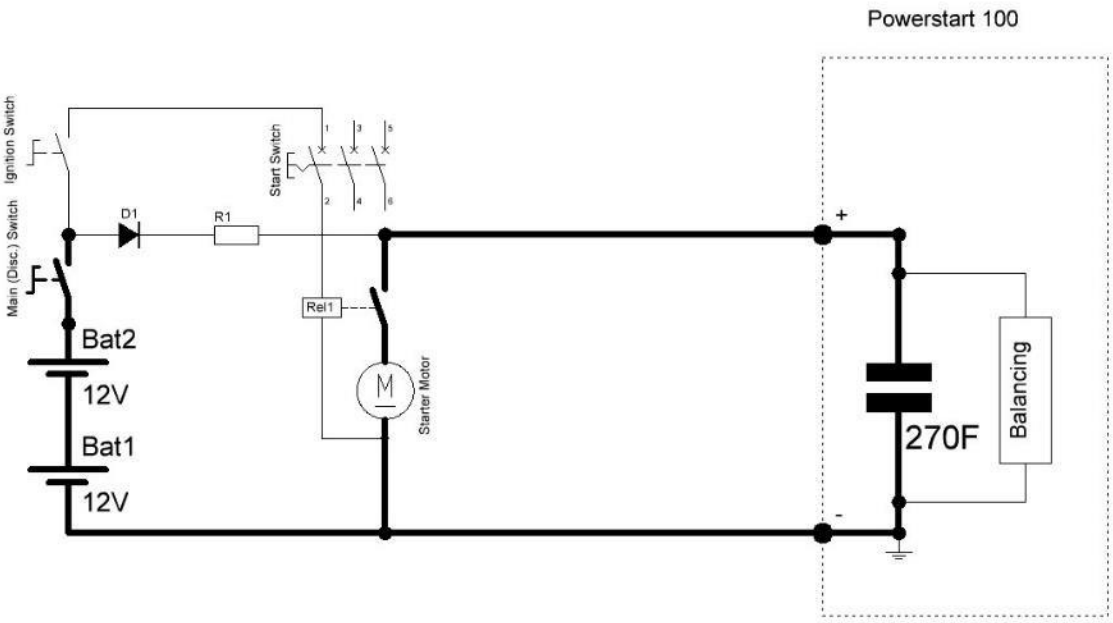
Hybrid Power

Overview



Global specifications

Symbol	Parameter	Min.	Typ.	Max.	Units	Comment
T_A	Ambient air temperature	-40	-	+60[1]	°C	-
U_{TR}	Transient peak voltage	-	-	150	V_{DC}	Exponentially decreasing to 28V within 4s
-	Capacity	-	270	-	F	-
I_B	Leakage current balancing	-	300	-	µA	-
-	Leakage current CAP	-	5.2	-	mA	72 h after charge

Up to 50°C three recharges 18V to 27V possible. If T ≥60°C charge locket. A temperature over 65°C is critical!

Power inputs / outputs

I / O	Parameter	Min.	Typ.	Max.	Units	Comment
Power + [1]	Output voltage	-	U_{Cap}	-	V	Identical to cap voltages. Charge switch off voltage
Power - [1]	Output current	-	-	2000	A	T < 5 s

[1] **Maximum tightening forces 10 … 15 Nm. Fix lower Nut by removing!**

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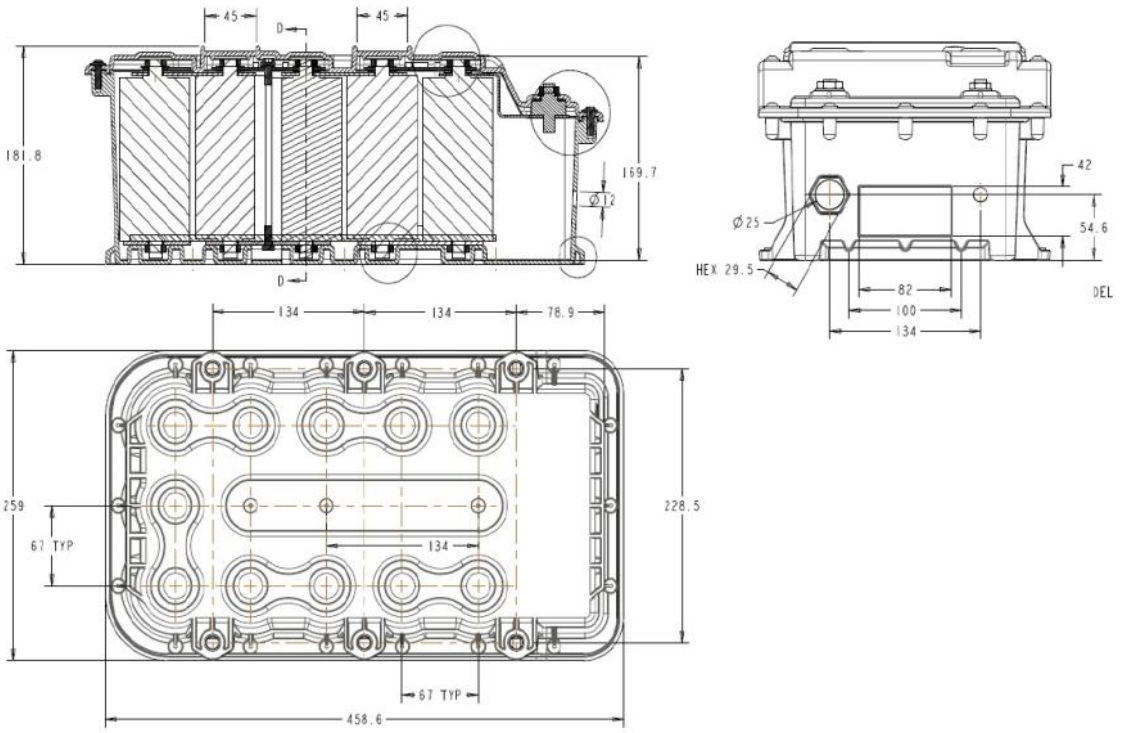
Mechanical data

Length x Width x Height:	459 x 259 x 182 mm or 18 x 10 x 7 inch
Weight:	Approx. 11 kg or 24 lbs
Enclosure:	IP65



Certifying Tests

Description / Conditions	
J1455 AUG2012	Shock and Vibration according to recommended environmental practices for Electronic Equipment Design in Heavy-Duty Vehicle Applications
72/245/EEC	Radio interference (electromagnetic compatibility) of vehicles