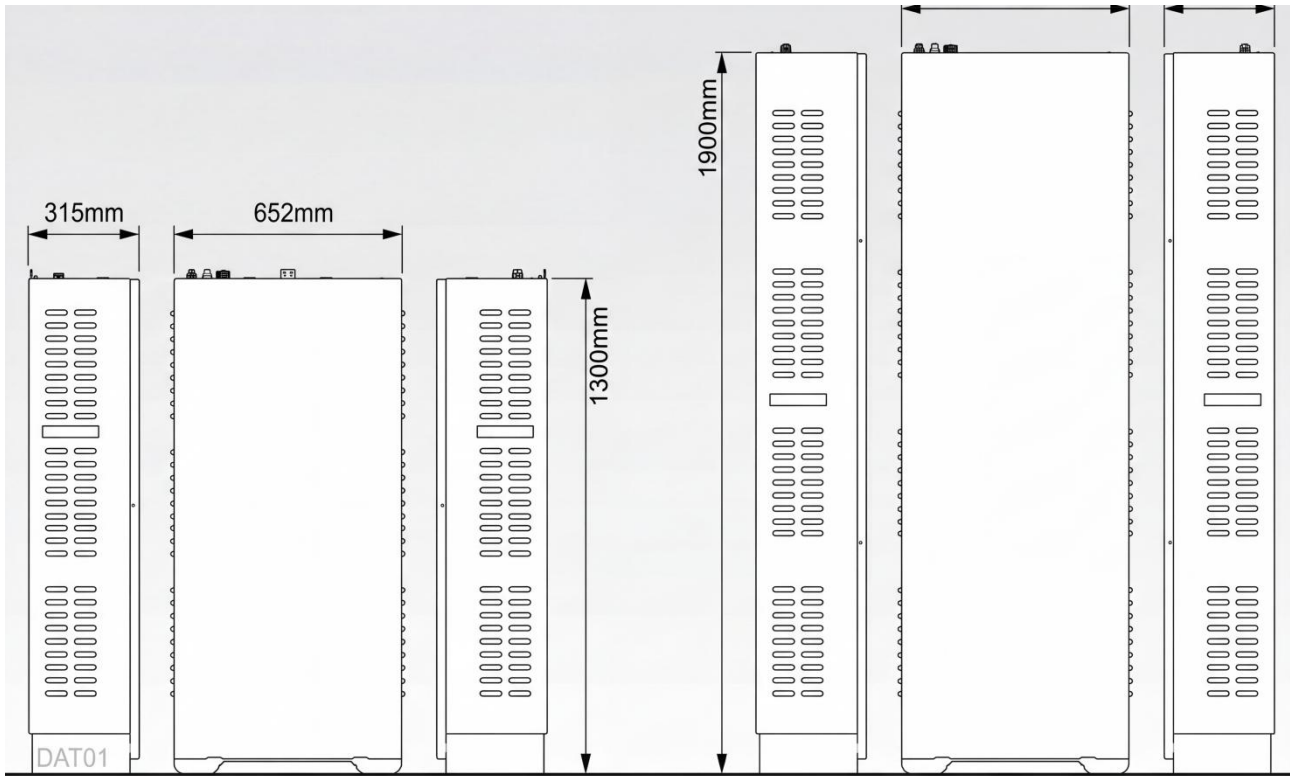


Redback HV Battery Enclosures



BATTERY ENCLOSURE DATA	PRIMARY		SECONDARY	
	BE14HV	BE21HV	BE28HV	BE35HV
Standard Battery System Models (Prefix RED-P1 -)	Rechargeable Li-ion Battery System			
Battery System Name	RED-P1 - 7000HV			
Battery Model	LiFePO4			
Battery Type	95%			
Battery Depth of Discharge	2	3	4	5
Number of Battery Units (N)	14kWh	21kWh	28kWh	35kWh
Storage Capacity	13.3kWh	19.95kWh	26.6kWh	33.25kWh
Usable Capacity	7.04kW	10.56kW	14.08kW	17.6kW
Nominal Power	DC 140.8V	DC 211.2V	DC 281.6V	DC 352V
Nominal Voltage	DC160.6V	DC240.9V	DC321.2V	DC401.5V
Maximum Voltage	DC110V	DC165V	DC220V	DC275V
Minimum Voltage	DC 95A			
Max Current (Charge)	DC 50A			
Recommend Current (Charge)	DC 95A			
Max Current (Discharge)	DC 50A			
Recommend Current (Discharge)	I			
Protective Class	IP54			
Ingress Protection Rating	<35dBA◆			
Noise emissions	Aluminium cabinet and front cover			
Material	Powdercoat and internal sealants; Stainless fittings.			
Finish	◆ Measured in Redback laboratory at 1m in front of Battery Enclosure.			

DIMENSIONS AND WEIGHTS							
ITEM	CAPACITY (NOMINAL)	HEIGHT (MM)	WIDTH (MM)	DEPTH (MM)	SHIPPING MASS (KG)	COMPONENT MASS (KG)	INSTALLED MASS (KG)
Enclosure BE14HV	14kWh	1300	652	315	49.5	42.6◆	180
Enclosure BE21HV	21kWh	1300	652	315	49.5	42.6◆	242

Enclosure BE28HV	28kWh	1900	652	315	68	53.6 [•]	315
Enclosure BE35HV	35kWh	1900	652	315	68	53.6 [•]	377
BMS Module: RED-P1-BMSHV	na	220	626	288	17.1	13.4	-
Battery: RED-P1-7000HV each	7kWh	278	626	288	65.7	62	-

[•]Excluding BMS module, batteries and cables.

GENERAL INFORMATION

Operating Temperature(Charge)	-10°C to 55°C
Operating Temperature(Discharge)	-20°C to 55°C
Operating Relative Humidity	0 – 100%
Operating Altitude	<2000m
Country of Origin	China
Warranty	10 years

COMMUNICATIONS PORTS AND PROTOCOLS

BMS	RJ45; straight-through; For comms to Battery Enclosure
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USER INTERFACE

Battery Enclosure	Coded LEDs on attached Redback Inverter (Status and SoC)
Battery Module	LED on battery front panel (status)
Remote Access	Web Portal; MyRedback app
Remote Firmware Updates	Supported

CERTIFICATIONS AND APPROVALS

IEC 62040-1:2017	IEC 60529	RCM
IEC 62477-1:2012	EN 61000	CE Mark (LVD, EMC, RoHS directives)

DESIGNED WITH INSTALLATION STANDARDS CONSIDERED

AS/NZS 3000:2018	AS/NZS 5139:2019	AS/NZS 5033:2021
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CONTACT INFORMATION

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