ENVA 60HV

Specification Sheet



freedom WON

ENVA 60HV [1]

Modular | Stackable | Bluetooth & Wi-Fi | Monitor via Android or iOS App

BATTERY MODULE PARAMETERS

Cell Chemistry	Lithium Iron Phosphate ($LiFePO_4$)
Cell Capacity [Ah]	100
Battery Module Cell Configuration	1P16S
Battery Module Rated Energy [kWh]	5.12
Ideal Charge/Discharge Current [A] [2]	50
Max. Charge/Discharge Current [A] [2]	100
Short Circuit Current [kA]	6

SYSTEM PARAMETERS

Rated Energy [kWh]	61.44	Specs for 12-module configuration (see installation manual for other configuration specs)
Nominal Voltage [V]	614.4	
Voltage Range [V]	537.3 ~ 691.2	
Battery PACK Modules	12 (1P16S each)	
Dimensions - H x W x D [mm] [3]	1960x550x596	
Weight [kg]	720	
Cycle Life	≥6000 cycles @ 90% DoD @ 25°C	
Max. DoD - Off-grid / Back-up [4]	95%	
Max. Parallel Batteries	4 (up to 12 when using 3rd level BMS)	
Max. Modules per Battery	16 (self-stacking, with max. 12 modules per stack)	
Installation Method	Stackable with brackets	
Ingress Protection	IP20	
Inverter Communication Interface	CAN / RS485	
Display	4.3-inch Touch-screen LCD (on HV Box)	

ENVIRONMENTAL PARAMETERS (BATTERY ROOM)

Charge/Discharge Temperature Range [°C] [5]	Charge: 0 ~ 35 | Discharge: -20 ~ 35
Ideal Temperature Range [°C] [5]	15 ~ 20
Relative Humidity [%]	5 ~ 95 (no condensation)
Max. Operating Altitude [m]	≤4000

GENERAL DATA

Standards & Certifications	UN38.3, *IEC62619
Warranty	5 years or 6000 cycles @ 90% DoD
Service Life	>15 years (>6000 cycles) @ 90% DoD

*In Progress

Notes to Specification Sheet

1. ENVA 60HV is the standard configuration, with other configurations available from 10kWh - 80kWh.
2. Max current duration 5 min every 30 min. Derating applies outside optimal temperature range.
3. Dimensions exclude protuberances such as plugs.
4. DoD = Depth of Discharge. Max 95% DoD under off-grid and back-up application.
5. See warranty document for further guidance on environmental temperature restrictions.

Speak to Our Team

Contact us for project enquiries, technical guidance or additional product information.

Plug into The Current Future

www.freedomwon.co.za