

Vega Three HPG Technical Data Sheet (FLA)

Model ¹	VEG3/12/28/ FLA	VEG3/12/42/ FLA	VEG3/18/28/ FLA	VEG3/18/42/ FLA	VEG3/24/28/ FLA	VEG3/24/42/ FLA
Prime Power Rating @ 25°C (kVA)	10.5		15		21	
Standby Power Rating @ 25°C - 30 mins (kVA)	12		18		24	
Surge Power Rating @ 25°C - 5 secs (kVA)	31.5		45		63	
AC Output Voltage- 50 Hz (V)	400 3Ph					
AC Input Current Max (A)	50 Per Phase 3Ph					
AC Output Current Max (A)	56				63	
Transfer Relay Time (ms)	< 15					
Standby Power Consumption (W)	6.3		6.6		7.2	
Inverter Protection	Overload, Overheat, Short Circuit, Low Battery					
Battery Storage Type	FLA (Flooded Lead Acid)					
Battery Capacity @ 70% DoD ² (kWh)	28	42	28	42	28	42
Earth Fault Protection	30 mA RCD					
Power Input Connections	AC In Busbar					
Power Output Connections	AC Out Busbar					
Auxiliary Connection (Remote Generator Start)	Internal Auxiliary Busbar					
Battery Monitoring	LCD Battery Monitor (Voltage, Power In/Out, % Capacity Available, Time Available, State of Charge History)					
Available Menu Languages	English, French, Spanish, German					
Charge Time Using AC In Busbar ³ (hours)	7					
Water/Ingress Protection Rating	TBC (IP Rating)					
Operating Temperature Range ⁴ (°C)	-20 to +45					
Weight (kg) <i>excluding canopy</i>	1210	1625	1210	1625	1210	1625
Weight of canopy (kg)	90					
Dimensions W x D x H (mm)	860 x 1492 x 1350					
Fork Pocket Dimensions W x D x H (mm)	200 x 860 x 100					
Distance Between Fork Pockets (mm)	810					
Remote Communication & Data Collection Package	Integrated GSM Modem To Collect System Status, Live & Historic Data, Fault & Event Notification, System Control & Programming					
Solar Preparation Upgrade Package ⁵	MPPT Solar Charge Controller up to 7 kWp array connection					

¹ Units with solar preparation option have /S suffix

² kWh is based on C20 rate and will vary depending on rate of discharge (see Fig. 2, Fig. 5 & Fig. 6)

³ Charge time dependent on available current of external source

Battery bank capacity may be affected by charging or discharging at less than 0°C (see Fig. 4)

⁴ Battery bank total cycle life may be affected by charging or discharging in excess of 25°C (see Fig. 3)

⁵ Optional upgrade available pre or post purchase of main unit

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Battery Bank Cycle Life

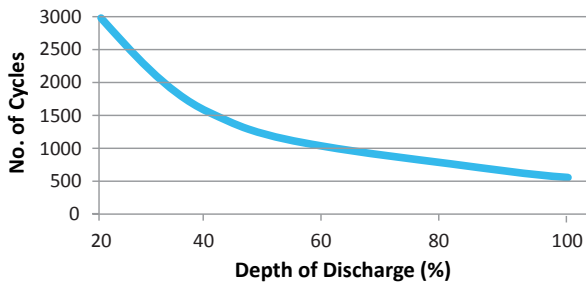


Fig. 1

Total System Load

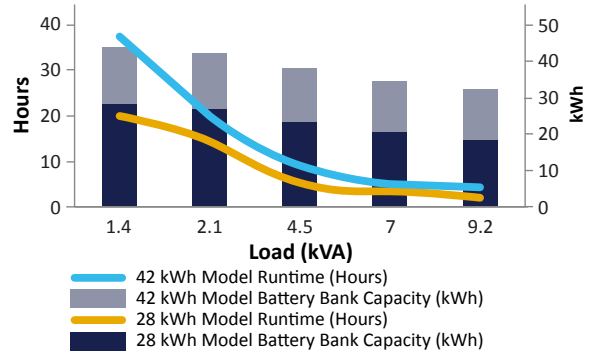


Fig. 2

Temperature Vs Battery Cycle Life

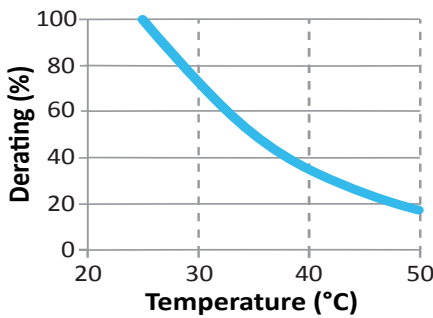


Fig. 3

Temperature Vs Storage Capacity

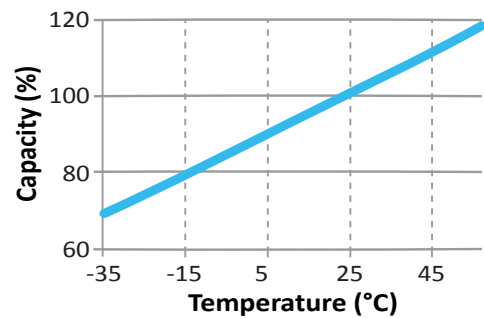


Fig. 4

Runtime & Capacity Vs Total System Load (42 kWh)

Runtime (hours)	Available Storage (kWh)	Current (A)	Power (kVA)
48	45.1	4.1	0.9
34	43.7	6.6	1.5
20	42.3	9.2	2.1
15	40.6	13.1	3
10	38.9	16.9	3.9
7.5	36.8	23.5	5.4
5	34.7	30.2	6.9
3.5	31.1	45	10.3
2	27.5	59.8	13.8

Fig. 5

Runtime & Capacity Vs Total System Load (28 kWh)

Runtime (hours)	Available Storage (kWh)	Current (A)	Power (kVA)
48	30	2.7	0.6
34	29.1	4.4	1.0
20	28.2	6.1	1.4
15	27.1	8.7	2v
10	25.9	11.3	2.6
7.5	24.5	15.7	3.6
5	23.1	20.1	4.6
3.5	20.7	30	6.9
2	18.3	39.9	9.2

Fig. 6