



8V Controller 150/45

Drive Motor Load Monitoring

48V System Monitoring

400 AH x 48V = 19.2 KWH
(2 x 4 x 12V x 200Ahr)

360W 24V 9A
6 Panels Total

6 Panels
2160W 48V 27A

4 Panels
1440W 48V 18A

10 KW @ 208A
6 KW @ 125A
4 KW @ 83A
2 KW @ 42A
1.4KW @ 30A

4 Flexible Panels 106W 12V 9A
Total Output 424W 24V 18A

12V Controller 100/50

1440W 24V 18A

Total Output
1864W 24V 27A

Volvo Penta Diesel
Drive Engine 13HP

115 Amp
Alternator
1.3KW

12V System Monitor and Control

640 AH x 12V = 7,68 KWH
(2 x 320 Ahr)

50 V Electric
Tender Battery

50 V Tender
Battery Charger

240AC Power Outlets

**240V Supply
Charger / Inverter**
240V Outlets, Hot Water
Shore Power

12V Supply
House
Fridge, Freezer, Lights, Fans, Aux
Vessel
Control, Gauges, Lights, Radio,
Auto Pilot, 120A Anchor Winch

Shore Power

DC/DC Converter 48V to 12V

DC/DC Converter 12V to 48V

13.2V Float Charge
20 Amp Output

48V Float Charge
30 Amp Output

48V Charger
Relay

12V Charger
Relay

Isolator

Negative Bonding Link

Load Monitoring
to be installed

Change Sensor to BMV-712
Mid Point Battery Monitor

48V Negative Bus

Earthing Bond

+48V

10mm²

12V

48V Out

12V Out

10 KW 208A
Motor Drive

Cooling Water
Pump 12V 2A

Drive System
Relay

throttle

brake

high brake(optional)

e-lock

connect to B+

forward/reverse

speed cruise

BLDC Motor

Phase wire U

Phase wire V

Phase wire W

Programming USB cable

Hall/thermal sensors

throttle

brake

high brake(optional)

e-lock

connect to B+

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