

Dolphin charger

Dolphin marine battery chargers were developed by the French manufacturer Power First and launched in 1995. The first generation chargers, many of which are still in operation today, featured cutting edge design and technology and were quickly adopted by professional and leisure boaters alike.

The second generation was launched in 2001. The electronic technology shifted to surface mount design and considerable focus was placed on the aesthetics in order to combine both form and function. It proved to be a successful recipe and was reflected in the Dolphin chargers' growth around the world in the following years.

The third generation series concept was to develop the product along two separate lines; an elementary range for lower power applications and a professional range for high power demand. Thus the Premium and Pro ranges were born, the former released in 2011 and the latter in 2012. The new range is the culmination of many years of experience gained from an in-depth knowledge and understanding of the marine industry.

In 2017 Amelec Australia will celebrate 20 years partnership with Dolphin as the Australian and New Zealand distributor.



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Dolphin premium

12V 15A

12V 10A



Dolphin

12V 25A 12V 40A 24V 20A

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Dolphin premium

12V 60A 24V 30A

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Dolphin

12V 90A 24V 40A 24V 60A 24V 80A 24V 100A 24V 150A

12V 70A

8-12



Dolphin

24V 40A 24V 60A

24V 100A

50A 13-15



Touch ViewControl Panel

16

Dolphinpremium

PLUG AND PLAY BATTERY CHARGER



The third generation Dolphin range includes the new Premium model, a selection of high quality, value-for-money chargers up to 60 Amps in 12V and 20 Amps in 24V. The Dolphin Premium range features:

- Compact and robust aluminium and plastic housing;
- A total of three independent and isolated charging outputs;
- Easy connectivity utilising wireable plug and socket connectors;
- Four user-selectable charging programs for common battery types;
- Rated for full current output at 50° ambient before de-rating;
- Automatic weekly equalisation over all charging programs;
- Automatic changeover from 115VAC to 230VAC input (except 12V 10A and 15A model);
- Fan cooling models feature silent mode for quiet night time operation;
- All PCBAs are conformally coated to provide corrosion resistance;
- Automatic protection against output overload, excessive operating temperature and high voltage on output;
- Fuse protected against reverse polarity connection on output.

12V 10A Charger

12V 15A Charger

Specifications

Input Voltage 230V (+/- 15%) (115V available on request)

Frequency 50Hz / 60Hz (+/-10%)

Cos 0.6 typ Efficiency 80% typ

Max. Current 230V 12.10: 1,3A | 12.15: 1,9A

Input Fuse (5x20mm) 12.10: T2A 250V | 12.15: T3, 15A 250A

Outputs 3 isolated outputs

Charging curves 4 programs, position selected by dip switch

- one of which is for LiFeSO4 batteries with an integrated BMS

Charging curve IUUo + weekly automatic equalisation

Weekly equalisation Automatic
Voltage share +/-2%

Ripple < 1% pp (BW < 20MHz)

Output Fuse (auto. mini) 12.10: F15A 32V | 12.15: F20A 32V

DisplayTricolour LEDNight/Silent ModeManual switchOperating Temperature-10°C to +50°C

Operating Humidity 10% to 90% (without condensation)

Ventilation Natural

Security EN60335-2-29 (2002)
Housing Powder coated aluminium

Mounting 2 screws 4mm

Input terminals 20A 230V, 4mm² max WINSTA - WAGO 770.813 / G11-000 Battery terminal 40A 630V, 10mm² max PHOENIX CONTACT PC6-16/4-G1F,16

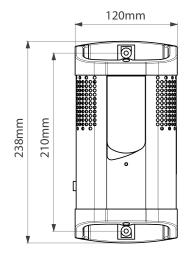
CAN BUS No

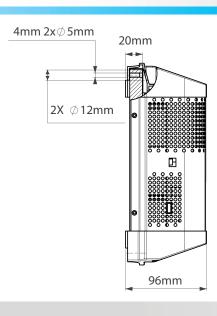
Dimensions 96 x 120 x 238 mm

Weight 12.10: 1,20 Kg | 12.15: 1,30 Kg

-DC +DC1 +DC2 +DC3 L1 (N

Dimensions





Part No. Model 399000 12V 10A 399010 12V 15A



12V 40A Charger

Specifications

Input Voltage 115V / 230V (+/- 15%) Automatic Switchover

Frequency 50Hz / 60Hz (+/-10%)

Cos 0.9 typ Efficiency 80% typ

Max. Current 115V/230V 12.25: 4A / 2A | 12.40: 7A / 3.5A Input Fuse (5x20mm) 12.25: T6A 250V | 12.40: T10A 250V

Outputs 3 isolated outputs

Charging curves 4 programs, position selected by dip switch

- one of which is for LiFeSO4 batteries with an integrated BMS

Charging curve IUUo + weekly automatic equalisation

Weekly equalisation Automatic Voltage share +/-2%

Ripple < 1% pp (BW < 20MHz)

Output Fuse (auto. mini) 12.25: 2 x F15A 32V | 12.40: 2 x F25A 32V

DisplayTricolour LEDNight/Silent ModeManual switchOperating Temperature-10°C to +50°C

Operating Humidity 10% to 90% (without condensation)

VentilationForced fan coolingSecurityEN60335-2-29 (2002)HousingPowder coated aluminium

Mounting 2 screws 4mm

Input terminals 20A 230V, 4mm² max WINSTA - WAGO 770.813 / G11-000 Battery terminal 40A 630V, 10mm² max PHOENIX CONTACT PC6-16/4-G1F,16

CAN BUS No

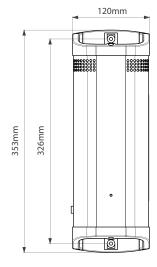
Dimensions 96 x 120 x 353 mm

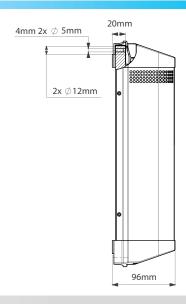
Weight 12.25: 2,05 Kg | 12.40: 2,25 Kg

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Dimensions





Part No. Model 399020 12V 25A 399030 12V 40A



24V 20A Charger

Specifications

Input Voltage 115V / 230V (+/- 15%) Automatic Switchover

Frequency 50Hz / 60Hz (+/-10%)

 Cos
 0.9 typ

 Efficiency
 80% typ

 Max. Current 115V/230V
 7A / 3.5A

 Input Fuse (5x20mm)
 T10A 250V

Outputs 3 isolated outputs

Charging curves 4 programs, position selected by dip switch

- one of which is for LiFeSO4 batteries with an integrated BMS

Charging curve IUUo + weekly automatic equalisation

Weekly equalisation Automatic
Voltage share +/-2%

Ripple < 1% pp (BW < 20MHz)

Output Fuse (auto. mini) 2 x F15A 32V

DisplayTricolour LEDNight/Silent ModeManual switchOperating Temperature-10°C to +50°C

Operating Humidity 10% to 90% (without condensation)

VentilationForced fan coolingSecurityEN60335-2-29 (2002)HousingPowder coated aluminium

Mounting 2 screws 4mm

Input terminals 20A 230V, 4mm² max WINSTA - WAGO 770.813 / G11-000 Battery terminal 40A 630V, 10mm² max PHOENIX CONTACT PC6-16/4-G1F,16

CAN BUS No

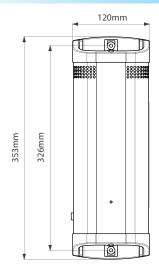
Dimensions 96 x 120 x 353 mm

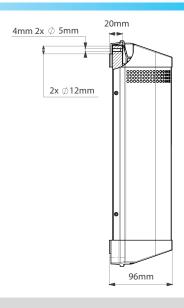
Weight 2,20 Kg

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Dimensions





Part No. Model 399040 24V 20A

12V 60A Charger

Specifications

Input Voltage 115V / 230V (+/- 15%) Automatic Switchover

Frequency 50Hz / 60Hz (+/-10%)

 Cos
 0.9 typ

 Efficiency
 80% typ

 Max. Current 115V/230V
 12A / 6A

 Input Fuse (5x20mm)
 T16A 250V

Outputs 3 isolated outputs

Charging curves 4 programs, position selected by dip switch

- one of which is for LiFeSO4 batteries with an integrated BMS

Charging curve IUUo + weekly automatic equalisation

Weekly equalisation Automatic Voltage share +/-2%

Ripple < 1% pp (BW < 20MHz)

Output Fuse (auto. mini) 3 x F25A 32V

Display Front LED or remote TOUCH View (option)

Night/Silent Mode Manual switch
Operating Temperature -10°C to +50°C

Operating Humidity 10% to 90% (without condensation)

Ventilation Forced fan cooling

External com CANbus

 EMC
 EN61000-6-3, EN61000-6-1

 Security
 EN60335-2-29 (2002)

 Housing
 Powder coated aluminium

Mounting 3 x 4mm screws

Input terminals 3 points, 20A 230V, 4mm² max. Ref.:770.813/G11-000 (WINSTA - WAGO)

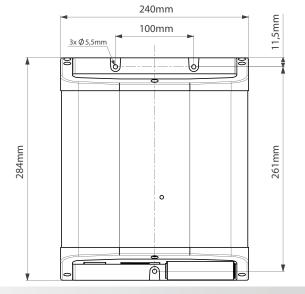
BAT acces 4 points, 60A, 35mm² max

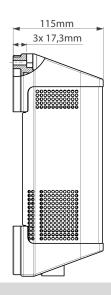
Other acces TOUCH (RJ11, 4 points), CAN (Micro-Fit, 6 points), UART (RJ12, 6 points)

Dimensions 284 x 240 x 115 mm

Weight 3,15 Kg

Dimensions









Part No. Model 399050 12V 60A



Dolphin

24V 30A Charger

Specifications

Input Voltage 115V / 230V (+/- 15%) Automatic Switchover

Frequency 50Hz / 60Hz (+/-10%)

 Cos
 0.9 typ

 Efficiency
 80% typ

 Max. Current 115V/230V
 12A / 6A

 Input Fuse (5x20mm)
 T16A 250V

Outputs 3 isolated outputs

Charging curves 4 programs, position selected by dip switch

- one of which is for LiFeSO4 batteries with an integrated BMS

Charging curve IUUo + weekly automatic equalisation

Weekly equalisation Automatic Voltage share +/-2%

Ripple < 1% pp (BW < 20MHz)

Output Fuse (auto. mini) 3 x F15A 32V

Display Front LED or remote TOUCH View (option)

Night/Silent Mode Manual switch
Operating Temperature -10°C to +50°C

Operating Humidity 10% to 90% (without condensation)

Ventilation Forced fan cooling

External com CANbus

 EMC
 EN61000-6-3, EN61000-6-1

 Security
 EN60335-2-29 (2002)

 Housing
 Powder coated aluminium

Mounting 3 x 4mm screws

Input terminals 3 points, 20A 230V, 4mm² max. Ref.:770.813/G11-000 (WINSTA - WAGO)

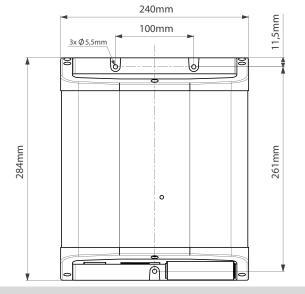
BAT acces 4 points, 60A, 35mm² max

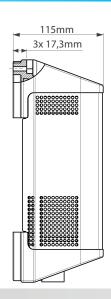
Other acces TOUCH (RJ11, 4 points), CAN (Micro-Fit, 6 points), UART (RJ12, 6 points)

Dimensions 284 x 240 x 115 mm

Weight 3,15 Kg

Dimensions







Part No. Model 399060 24V 30A



ROBUST AND POWERFUL MARINE BATTERY CHARGER



Like the new Premium models the third generation Dolphin range includes the powerful new Pro version for both professional and leisure applications. The Dolphin Pro range features:

- Heavy duty construction in powder coated aluminium and stainless steel;
- User-friendly design for ease of installation, set-up and operation;
- Integrated control panel features LED indication of charging stages and errors;
- A total of three diode isolated charging outputs without voltage drop;
- Nine, user-selectable charging programs for complete flexibility in battery type;
- Will operate in high ambient environments up to 50° before de-rating;
- All PCBAs are conformally coated to provide corrosion resistance;
- Automatic protection against output overload, excessive operating temperature and high voltage on output;
- Fuse protected against reverse polarity connection on output;
- Incorporates open CAN BUS interface for connection to standard J1939 monitored systems;
- Touchview remote control and monitoring panel readily available as an option.



12V 70A Charger

12V 90A Charger

Specifications

Input Voltage 115V / 230V (+/- 15%) Auto Switch

Frequency 50Hz / 60Hz (+/-10%)

Cos > 0.9 typ Efficiency 0.83

Max. Current 115V/230V 12.70: 13A / 6A | 12.90: 16A / 7A

Input Fuse (6.3x32mm) T20A

Outputs 3 isolated outputs

Charging curves 9 programs, position selected by dip switch

Charging curve IUUo 3 modes

Voltage share +/-2%

Ripple < 1% (BW < 20MHz)

Output Fuse (auto. mini) 4 x F30A

Display LED display or optional touch multi-colour Touchview

Operating Temperature -10°C to +50°C

Operating Humidity 10% to 95% (without condensation)

IP22

ΙP

Ventilation Forced fan adjustable speed cooling

Safety EN 60335-1

EMCEN 55016, IEC 61000HousingPowder coated aluminiumMountingWall mounted 4 x M4 screws

Dimensions 346 x 358 x 128 mm

Weight 6 Kg

AC Connection 3-point cage terminal 10mm² max

DC Terminal 4 M8 terminals
Output alarm contact 1A 30V NO

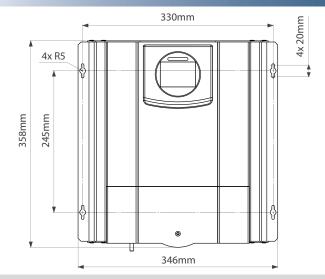
Battery temp. sensor 2-point 1,5 mm² cage terminal

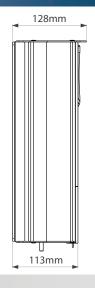
External touch screen RJ45

control panel (Touchview)

CAN Bus connection 2 Micro-Fit & RJ11

Dimensions









Part No. Model 399145 12V 70A 399150 12V 90A

24V 40A Charger

24V 60A Charger

Specifications Pro Touch

Input Voltage 115V / 230V (+/- 15%) Auto Switch

50Hz / 60Hz (+/-10%) Frequency

Cos > 0.9 typ Efficiency 0.87

24.40: 14A / 6A | 24.60: 15A / 9A Max. Current 115V/230V

Input Fuse (6.3x32mm)

3 isolated outputs Outputs

Charging curves 9 programs, position selected by dip switch

Charging curve IUUo 3 modes

Voltage share +/-2%

< 1% (BW < 20MHz) Ripple

3 x F25A Output Fuse (auto. mini)

Multi-colour Touchview Display

Operating Temperature -10°C to +50°C

Operating Humidity 10% to 95% (without condensation) ΙP

Forced fan adjustable speed cooling Ventilation

Safety EN 60335-1

EMC EN 55016, IEC 61000 Housing Powder coated aluminium Wall mounted 4 x M4 screws Mounting

346 x 358 x 128 mm **Dimensions**

Weight 6 Kg

AC Connection 3-point cage terminal 10mm² max

DC Terminal 4 M8 terminals 1A 30V NO Output alarm contact

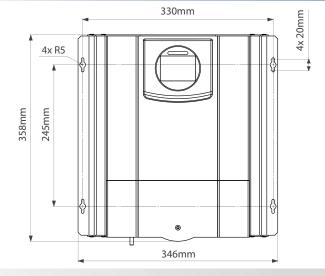
Battery temp. sensor 2-point 1,5 mm² cage terminal

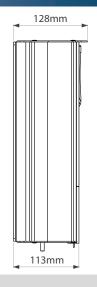
External touch screen RJ45

control panel (Touchview)

CAN Bus connection 2 Micro-Fit & RJ11

Dimensions





Part No. Model 399460 24V 40A 399470 24V 60A





24V 80A Charger

24V 100A Charger

Specifications

Input Voltage 230V (+/-15%) 50Hz / 60Hz (+/-10%) Frequency

Cos > 0.9 typ Efficiency 0.87

Max. Current 230V 24.80: 15A | 24.100: 17A Input Fuse (6.3x32mm) 24.80: T20A | 24.100: 2 x T20A

Outputs 3 isolated outputs

Charging curves 9 programs, position selected by dip switch

Charging curve IUUo 3 modes

Voltage share +/-2%

< 1% (BW < 20MHz) Ripple

Output Fuse (auto. mini) 5 x F25A

LED display or optional touch multi-colour Touchview Display

Operating Temperature -10°C to +50°C

Operating Humidity 10% to 95% (without condensation)

IP22

ΙP

Forced fan adjustable speed cooling Ventilation

Safety EN 60335-1

EMC EN 55016, IEC 61000 Housing Powder coated aluminium Wall mounted 4 x M4 screws Mounting

24.80: 346 x 358 x 128 mm | **24.100**: 346 x 358 x 196 m **Dimensions**

Weight 24.80: 6 Kg | 24.100: 11,5 Kg **AC Connection** 3-point cage terminal 10mm² max

DC Terminal 4 M8 terminals 1A 30V NO Output alarm contact

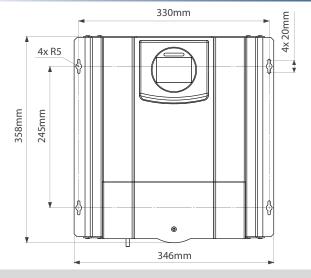
Battery temp. sensor 2-point 1,5 mm² cage terminal

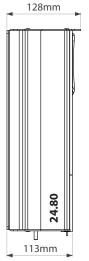
External touch screen RJ45

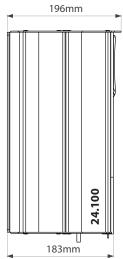
control panel (Touchview)

CAN Bus connection 2 Micro-Fit & RJ11

Dimensions







Part No. Model 399177 24V 80A 399180 24V 100A



24V 150A 1 Phase

24V 150A 3 Phase

Specifications

Input Voltage 1 Phase: 230 Vac 1 Phase

3 Phase: 400 Vac 3 Phase + Neutral

Frequency 50Hz / 60Hz (+/-15%)

Power Factor 0.9 typ Efficiency 0.85

Max. Consumption 1 Phase: 25A | 3 Phase: 9A

Input Fuses 3x15 Amp slow (6.3x32mm glass type)

Outputs 3 isolated (no loss splitter)

Max current 150 Amp adjustable from Touch Display

(105 Amp / 75 Amp / 45 Amp)

Temp. compensation Yes with external Temp Sensor +/- 25Mv / °C

Floating & Boost Voltage Based on charging program selected (Lead acid, Lead/Calcium,

Calcium/Calcium maintenance free/ AGM Spiral cell/ Gell/AGM/Winterizing/Power supply)

Voltage tolerance +/- 2%

CommunicationCANBUS J1939 openAlarm relayFree contact output 10 Amp

Display Touch panel 2.5"

Operating Temperature -10°C to +50°C

Max Humidity 90%
IP Enclosure IP22

Cooling Variospeed thermostated fans

Safety EN 60335-

EMC EN 55016-2-1, EN 55016-2-1/A1,

CISPR 16-2-1, EN 55016-2-3.

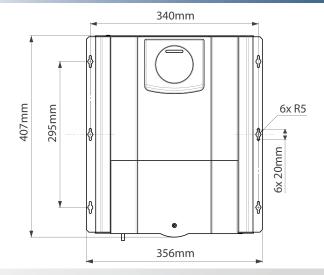
Dimensions 356 x 407 x 258 mm

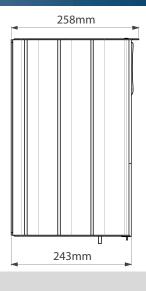
Weight 19 Kg

I, Lead/Calcium, cell/ Gell/AGM/Winterizing/Power supply)

Dolphin

Dimensions





 Part No.
 Model

 399186
 24V 150A 1Phase

 399187
 24V 150A 3Phase





The new HD+ is the type-approved version of the Dolphin Pro for commercial and offshore applications. The Dolphin Pro HD+ range features:

- DNV-GL (Det Norske Veritas) type-approved for vessels under survey;
- Inbuilt HMI touch screen for comprehensive battery charger management;
- Delivered with Touchview remote control and monitoring panel as standard;
- A total of three diode isolated charging outputs without voltage drop;
- Nine, user-selectable charging programs for complete flexibility in battery type;
- Will operate in high ambient environments up to 50° before de-rating;
- Incorporates independent alarm relay for external remote alarm indication;
- Automatic protection against output overload, excessive operating temperature, excessive battery temperature, AC input over/under voltage and output high voltage protection;
- Fuse protected against reverse polarity connection on output;
- Incorporates open CAN BUS interface for connection to standard J1939 monitored systems.

^{*} Certificate No: E-14112 / File No 822.20 / Job ID/ 262.1-018698-1 Type tests in accordance with IEC 60335-1 & IEC 60335-2-29. Low temperature & Vibration tests in accordance with SfC No. 2.4 Class A. Humidity / Damp heat tests in accordance with SfC No. 2.4 Class B. EMC in accordance with SfC No. 2.4 Class A.

24V 40A Charger

24V 60A Charger

Specifications

115V/230V (+/-15%) Automatic Switchover Input Voltage

Frequency 50Hz / 60Hz (+/-10%)

Cos 0.9 typ Efficiency 0.85

Max. Current 115V/230V **24.40**: 12A / 6A | **24.60**: 12A / 9A

Fuse (5x20mm) T20A

Outputs 3 isolated outputs

Charging curves 9 programs, position selected by dip switch

IUUo 3 modes Charging curve

+/-2% Voltage share < 1% Ripple Fuse (automatic mini) 3 x F30A

Touch screen control panel Display

Operating Temperature -10°C to +50°C

Operating Humidity 10% to 95% (without condensation) Ventilation Forced fan adjustable speed cooling

Security EN60335-29-2 **EMC** Emission EN55014-1

Powder coated aluminium and Housing

composite materials (LED display) Wall mounted 4 x M4 screws

Mounting 346 x 358 x 128 mm

Dimensions

Weight 6 Kg

DC connection 4 M8 terminals

AC connection 2 pins max 10mm² terminal, M6 bolt for ground

Output alarm contact 1A 30V NO

Battery temp. sensor 2 pins terminal 1,5 mm² max

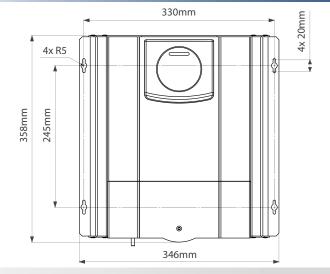
CAN bus connection RJ11

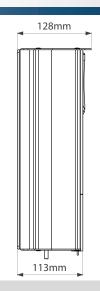






Dimensions





Part No. Model 399165 24V 40A 399175 24V 60A



24V 100A Charger

Specifications

Input Voltage 230V (+/-15%)
Frequency 50Hz / 60Hz (+/-10%)

 Cos
 0.9 typ

 Efficiency
 0.88

 Max. Current 230V
 15A

 Fuse (5x20mm)
 2 x T20A

Outputs 3 isolated outputs

Charging curves 9 programs, position selected by dip switch

Charging curve IUUo 3 modes

Voltage share +/-2%Ripple < 1%Fuse (automatic mini) $5 \times F30A$

Display Touch screen control panel

Operating Temperature -10°C to +50°C

Operating Humidity 10% to 95% (without condensation)
Ventilation Forced fan adjustable speed cooling

Security EN60335-29-2 EMC Emission EN55014-1

Housing Powder coated aluminium and

composite materials (LED display)

Mounting Wall mounted 4 x M4 screws

Dimensions 346 x 358 x 196 mm

Weight 12 Kg

DC connection 4 M8 terminals

AC connection 2 pins max 10mm² terminal, M6 bolt for ground

Output alarm contact 1A 30V NO

Battery temp. sensor 2 pins terminal 1,5 mm² max

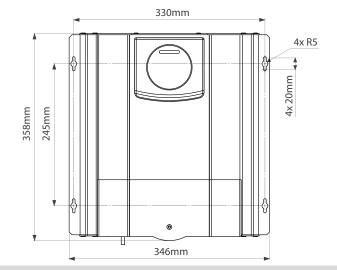
CAN bus connection RJ11

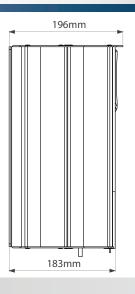






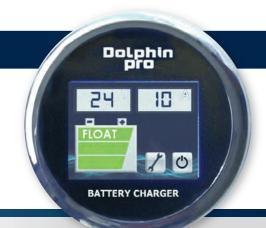
Dimensions





Part No. Model 399185 24V 100A

Touch View - Control Panel



Specifications

Application 12/24V Dolphin Pro series
Supply voltage Regulated by battery charger
Power consumption

- max brightness- screen turned off150 mA approx.50 mA approx.

Display type 2.4" (6.1 cm) a-Si TFT screen

Display resolution 320 x 240 pixel Parameter selection Touch screen

Languages English, French, Italian, Spanish, German

Screen background Configurable: three available colours

Screen brightness Adjustable

Interface 16-bit interface for i80system

Alarm 1 Battery or electronics temperature fault

Alarm 2 Charger supply voltage fault

Alarm 3 Fuse fault

Alarm 4 Charger output voltage fault

Alarm 5 CAN bus fault

Operating Temperature -10°C to +50°C

Operating Humidity 10% to 70% without condensation

Convection Natural

Presentation Flush mounted Ø 93mm

Flush mounting 72 mm dia. (use a 73 mm hole saw) depth 15 mm

Dimensions 93 x 93 x 23mm

Weight < 500g
Conformity ROHS
Connection RJ9 connector

• External touch screen control panel for Dolphin Pro range

•Tactile, with Can Bus connection

•You can supervise your charger and your battery bank

•5 languages

•Instructions menu: temperature, error messages,

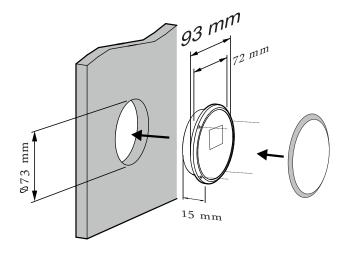
charging current, charging curve selected, charging phase (boost, absorption, float),

power max delivered

SUPPLIED WITH

Temperature sensor (1 electric sensor) and Shunt (1 shunt 300 Amps/100mV)

Dimensions



Part No. Model 399033 Touch View



Amelec Australia Pty Ltd warrants all Dolphin products against defects in factory workmanship and materials for a period of 2 (two) years from final point of sale providing the item in question does not exceed the manufacture date by more than 3 (three) years. Specific exclusions of this warranty apply where the item in question has been misapplied or used for a purpose for which it is not designed or intended; or altered in any way that would be detrimental to the performance or life of the product; or opened or tampered with by an unauthorised party; or contaminated by oil, water, grease or other substances; or subjected to misuse, negligence, excessive vibration or mechanical abuse; or damaged as a result of incorrect connection or voltage. On any part or product found to be defective after examination by Amelec Australia Pty Ltd or their authorised agent, Amelec Australia will only repair or replace the merchandise through the original selling dealer. Amelec Australia assumes no responsibility for diagnosis, removal and/or installation labour, loss of equipment use, loss of time, inconvenience or any other subsequent expenses including freight costs. Save and except for the express warranty set out above and to the maximum extent permitted by law, all conditions and warranties which may at any time be implied by the common law, Trade Practices Act, Fair Trading Act or any Other State or Federal Act are excluded. To the extent that these cannot be excluded and where the law permits, Amelec Australia liability in respect of any such condition or warranty shall be limited at the option of Amelec Australia to the repair or the replacement of the goods or the supply of equivalent goods or refunding the cost of the goods. Amelec Australia Pty Ltd A.B.N. 38 009 386 216

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