



# Dolphin<sup>®</sup> charger



## PRO HD+ Series

### 24V60A and 24V100A

The Dolphin PRO HD+ charger range is a robust, internationally certified solution designed for professional marine applications, offering 24V options at 60A and 100A, and widely used in commercial and military boats.

Equipped with a user-friendly color touchscreen and CAN interface for seamless integration with onboard monitoring systems, these chargers feature tropicalized electronics and anti-corrosion aluminum cases to withstand harsh environments and mechanical vibrations.

They have been rigorously tested and approved by DNV, adhering to IEC standards and Sfc Class A specifications for low temperature, vibration, and humidity resilience, ensuring reliable operation even at temperatures up to 50°C without derating.

An integrated control panel provides real-time charging data and alarms for temperature, voltage, and fuse issues, making them a highly durable and intelligent power solution for demanding marine conditions.



CAN BUS



LiFePo4



AC100-240V



# Technical specifications

	24V/60A	24V/100A
<b>Input</b>		
Input voltage	115/230V (+/-15%)	230V (+/-15%)
Frequency	50/60 hz	
Cos	> 0,9	
Efficiency	87%	
Max. Current 115V/230V	15A/9A	17A
Fuse (6,3x32mm)	T20A	2T20A
<b>Output</b>		
Number of output	3 isolated (Full power)	
Number of charging curves	Open lead acid / Sealed lead acid / Lead calcium / calcium calcium / Spiral cell AGM / Winterizing open lead acid / Odyssey Marine / GEL AGM/ Power supply / LifePo4 + BMS	
Charging curve	I.U.U.o	
Voltage share	+/-2%	
Max. Amp	60A	100A
Battery capacity	300 ÷ 600 Ah	500 ÷ 1000 Ah
Fuse (auto mini)	3F25A	5F30A
<b>Protections</b>		
Auto restart when alarm disappears	Output current limited / Output short circuit / Overload output voltage / Reverse polarity / Over temperature	
<b>Generalities</b>		
Display	Multicolor 2,4" touch TFT	
Operating t°	-10°C to +55°C (Full power till +50°C)	
Storage t°	-20°C to +65°C	
Humidity	10% to 95% (without condensation)	
IP Rating	IP22	
Convection	Force fan adjustable speed cooling	
Housing	Grey Powder coating aluminium	
Mounting	Wall mounted 4 x M4 Screws	
Dimensions D x W x H	128 x 346 x 358 mm	196 x 346 x 358 mm
Weight	6 Kg	11,5 Kg
AC Connection	3-point cage terminal 10mm <sup>2</sup> max	
DC Terminal	4M8 Terminals	
Output alarm contact	1A 30V NO	
Battery temperature sensor	2-point 1,5mm <sup>2</sup> cage terminal	
External touch screen control panel (Touchview)	RJ45	
CAN Bus connection	2 Micro-Fit & RJ11	
<b>Standards</b>		
Marine Type Approval	DNV Certificat No TAE00003R1 Rev No:1	
Safety	IEC 60335-1 Edition 2012-01 & IEC 60335-2-29 Edition 2004-09	
Mechanical & Environmental	IEC 60068-2-30/1/52 (climatic, salt spray)	
EMC	DNV-CG-0339 Edition Aug. 2021 – CISPR 16-2-3 ED4.1 (2019) – IEC 61000-4-3 (2020)	
Low temperature & Vibration tests, Damp heat tests and EMC	In accordance with Sfc No. 2.4 Class B DNV-CG-0339 Edition Aug. 2021	
Part Number	399175	399185