

NEW PRODUCT RELEASE

INTELLI-CHARGE DC TO DC WITH MPPT SOLAR

50A DUAL BATTERY CHARGER

5
YEAR WARRANTY



As the larger counterpart to the multi-award-winning IDC25X, the IDC50X has been designed, engineered, and tested in Australia to deliver user benefits tailored specifically for the Australian and New Zealand environments

PROVIDES THE BEST POSSIBLE CARE FOR YOUR BATTERY AND VEHICLE

- Pre-set charging modes for AGM, wet, gel, calcium, and lithium batteries
- Adjustable (with IQD2) 50A, 3 & 5 stage charging for optimal performance
- Adaptive charging protects the vehicle while providing maximum charge
- Automatic temperature compensation adjusts for optimal charging as battery temperature changes
- Voltage drop compensation ensures the correct charge voltage at the battery
- Simultaneous charging from both solar and alternator input
- Highly efficient MPPT solar charging guarantees the best possible charge, even in shaded conditions
- Lithium wake-up mode

WORKS HARDER IN TOUGHER CONDITIONS

- Highest possible rating against dust, water and pressure washing (IP68 & IP69K)
- Fully potted with thermal epoxy resin to help draw heat away from the PCB

WON'T LET YOU DOWN IN REMOTE LOCATIONS

- Designed, engineered, and tested in Australia
- Crafted with high-quality electronic components for enhanced longevity
- Ultra-efficient power conversion maximises battery charging while minimising stress on the charger
- Vibration tested and shockproof to heavy vehicle standards
- Backed by a 5 year warranty

MOST CONNECTED DC/DC CHARGER

- Complete control of your DC system through the Intelli-IQ Smart Display (IQD2)
- **Never turn up with a flat battery**
 - * IQD2 provides real-time updates on your charge rate
 - * Programmable alarms alert you before it's too late
 - * An over-discharged lithium battery can be easily recharged
- Don't get stuck with 2024 technology
- Intelli-IQ ensures your system is always up to date and scalable as new technology becomes available

IDC50X INTELLI-CHARGE DC TO DC WITH MPPT SOLAR IDC50X DUAL BATTERY CHARGER

ENGINEERED TOUGH

IDC50X has been engineered to meet IP68 and IP69K water and dust ingress. It can be mounted in engine bays and is protected against harsh vibration, high-pressure water spray, and extreme temperatures without the risk of failure. The IDC50X circuitry has been fully potted with high-quality thermal epoxy resin that draws heat from the electronics to the outer housing.

This ensures efficient operation to keep you going, wherever it's mounted and wherever you are.

WON'T LET YOU DOWN IN THE TOUGHEST OF CONDITIONS

The IDC50X is designed, engineered, and tested in Australia, using only the best electronic components for a longer life. It features ultra-efficient power conversion, allowing for more charging for your battery and less stress on the charger, resulting in extended longevity. It is vibration and shockproof, meeting Heavy Vehicle Standards. The IDC50X also comes equipped with a 5 year warranty for total piece of mind.

PROVIDES THE BEST POSSIBLE CARE FOR YOUR BATTERY

The IDC50X features 3 and 5-stage charging for the best possible charge. It includes automatic temperature compensation, which adjusts the charging process based on climate changes for optimal performance. The voltage drop compensation ensures the correct charge voltage is maintained. Additionally, simultaneous charging is supported, and the Lithium Wake-Up Mode allows for easy recognition of a lithium battery. If the battery management system (BMS) turns off, a single button press ensures the charger recognises the battery and begins charging. The adaptive charging feature dynamically adjusts the output current based on available power, ensuring safe and efficient charging for all battery types.

MPPT SOLAR CHARGING

The IDC50X offers over 90% efficiency through MPPT solar charging, ensuring optimal power conversion even in shaded conditions. It continuously monitors various inputs from solar panels, measuring voltage and amperage to find the best balance for maximum power production.



5
YEAR
WARRANTY

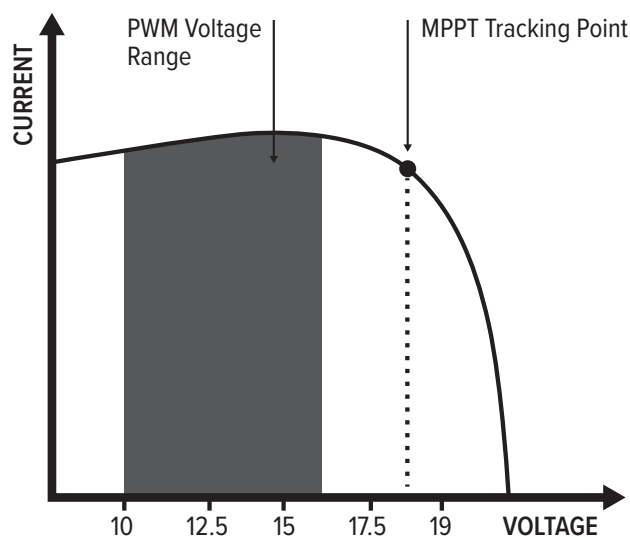


ULTRA EFFICIENT
MPPT SOLAR



IP68 &
IP69K

MAXIMUM POWER POINT TRACKING (MPPT)



MULTI-CHEMISTRY TECHNOLOGY

The IDC50X supports AGM, GEL, WET, Calcium, and Lithium batteries, offering true multi-chemistry charging. When paired with Intelli-IQ, users gain Bluetooth control over the IDC50X, allowing them to customise their DC/DC charger to suit their specific system..

MOST CONNECTED DC/DC CHARGER

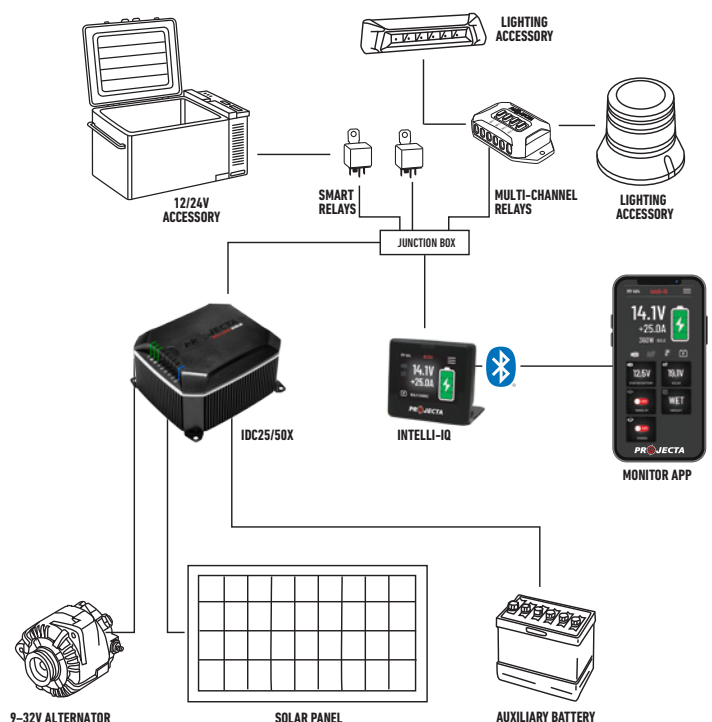
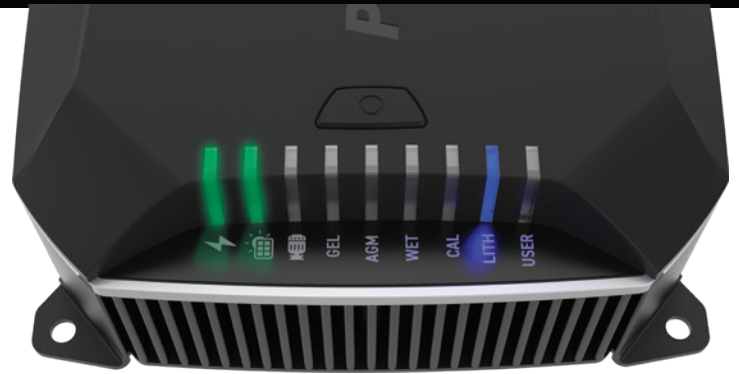
The IDC50X can be monitored through a smartphone, tablet, or the Intelli-IQ smart display. Users can adjust various parameters related to the battery charge profiles, ensuring that the IDC50X can adapt to any new battery that enters the market via the app. The firmware is upgradeable through Bluetooth, allowing users to update the IDC50X with just a few taps on their smartphone.

INTELLI-IQ LINBUS TECHNOLOGY

LIN bus is the communication protocol most commonly used in the automotive industry. It enables the IDC50X to be controlled directly through Intelli-IQ or via Bluetooth from any smart device using a state-of-the-art smartphone app.

How it benefits users:

- Enables connectivity with Intelli-IQ. Custom charging profiles can be set via Intelli-IQ.
- Firmware updates can be done through a smartphone, eliminating the need to remove the system and visit a dealer or manufacturer.
- Future-proof against new battery technologies and charge profiles, allowing Projecta to add new battery charge profiles as they are released.
- Versatile connectivity with other devices (e.g., light bars, relays).
- Single wire connection to Intelli-IQ simplifies installation.



IDC50X INTELLI-CHARGE DC TO DC WITH MPPT SOLAR IDC50X DUAL BATTERY CHARGER

PARALLEL CHARGING

The LIN bus enables the IDC50X to communicate natively, ensuring synchronised charging across multiple units without the risk of overcharging. It is also upgradeable, making it easy for customers to add more IDC50X or IDC25X units as their charging needs grow. This system allows for quicker charge times and meets higher load requirements when larger batteries are installed (requires IQD2).



EASY TO INSTALL

The IDC50X features brass posts for lug termination and blade terminals, ensuring the most secure and reliable connections while preventing wiring errors. The nut and bolt termination method allows for easy and secure installation. Once connected, the unit is equipped with a snap-on cover that protects the connections from environmental conditions and conceals the wiring for a clean, professional appearance. The kit includes everything needed for installation (excluding fuses), with lugs, terminals, and heatshrink all provided.

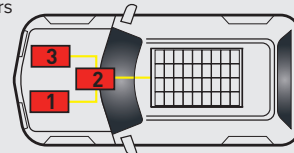


APPLICATION GUIDE

The IDC50X is designed for vehicle applications where an auxiliary or secondary battery is present. Built for use in tough and rugged conditions, it supports all the power requirements for a DC to DC charger.

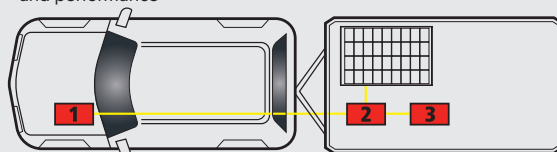
4WD INSTALLATION

A sophisticated dual battery charger engineered for in-vehicle or under bonnet installation on vehicles fitted with traditional or smart alternators



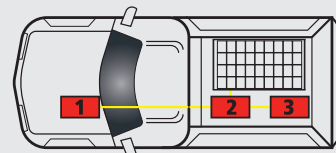
CARAVAN INSTALLATION

Combines a vehicle's solar and alternator power to deliver a comprehensive multi stage charge, ensuring longer battery life and performance



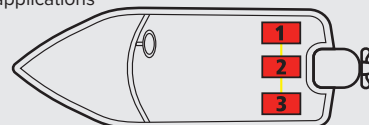
CANOPY INSTALLATION

Allows for engine bay or canopy installation

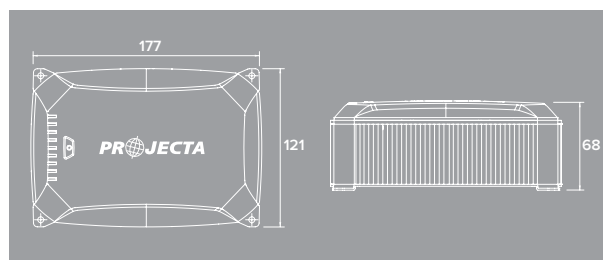


BOAT INSTALLATION

IDC25X ingress protection rating makes it ideal for marine applications



1 Main Battery **2** DC to DC Charger **3** Aux Battery



Application Guide



BATTERY SIZE
100Ah - 600Ah

P/NO.	DESCRIPTION	BARCODE	AVAILABILITY
IDC50X	12/24V 50A DC-DC Battery Charger with MPPT Solar	9315219006028	Ex Stock
IDC50XIQ	12/24V 50A DC-DC Battery Charger with MPPT Solar and IQ Screen	9315219004062	Ex Stock
IDC25X	12/24V 25A DC-DC Battery Charger with MPPT Solar	9315219004796	Ex Stock
IDC25XIQ	12/24V 25A DC-DC Battery Charger with MPPT Solar and IQ Screen	9315219005908	Ex Stock
IQD2	12/24 INTELLI IQ Smart Display	9315219008480	Ex Stock
FK25A	Fuse kit to suit 25A charger	9315219002709	Ex Stock
FK50A	Fuse kit to suit 50A charger	9315219002716	Ex Stock