

# New Product Bulletin

**PROJECTA**  
MORE SWITCHED ON



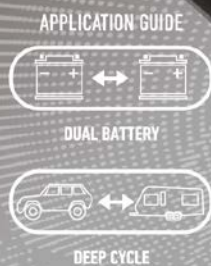
## IDC45 - INTELLI-CHARGE 45A 12V, 3 STAGE DC/SOLAR BATTERY CHARGER

### FEATURES:

- 45A solar MPPT
- Temperature compensation
- Multi-chemistry
- Simultaneous solar and alternator charging
- Dual charging modes for smart/conventional alternators

**IDC45**

**2**  
YEAR  
WARRANTY



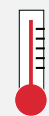
Following the enormous success of the IDC25 DC/Solar Battery Charger, Projecta has now released a 45 Amp version that combines many of the market-leading features of the original, with a much larger output designed to deliver faster charging and handle more demanding applications. Allowing you to charge your 12V second/auxiliary deep cycle battery on the go, the IDC45 is resistant to shock, vibration and is also dust proof. The unit is also water resistant, making it suitable for both in-vehicle and under-bonnet installation.

Able to charge simultaneously from both solar and alternator inputs, IDC45 can also function as an MPPT solar controller and features dual charging modes for compatibility with both smart and conventional alternators. Loaded with a host of safeguard features, the easy to install unit includes over/under voltage, anti-sparking, reverse connection and over temperature protection systems to ensure peace of mind. The IDC45 provides the ultimate solution for the most demanding DC/Solar battery charging applications.

Pre-wired cabling, labelled for ease of installation



Compact and able to operate in high temperatures makes it ideal for under bonnet installation



#### OVER TEMPERATURE PROTECTION

IDC45 will automatically adjust its output voltage based on battery temperature, preventing overcharge and overheating in small batteries and hotter climates.



#### REVERSE CONNECTION PROTECTION

The charger will detect and indicate a reversed connection on the input and output terminals, preventing damage to the internal circuitry of the unit.



#### OVER AND UNDER VOLTAGE PROTECTION

IDC45 will automatically shut down if it detects an over voltage or under voltage problem, preventing damage to the battery.



#### SPARK-FREE PROTECTION

IDC45 will not begin charging unless the load is securely connected, preventing output leads from sparking due to accidental short circuit.

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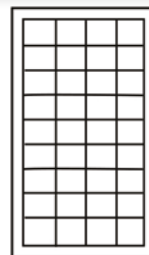
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## IDC45 - INTELLI-CHARGE 45A 12V, 3 STAGE DC/SOLAR BATTERY CHARGER

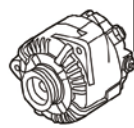
### CLASS LEADING FEATURES:

- **Dual Input Operation:** Simultaneous dual battery charging from both solar and alternator inputs, no manual switching required.
- **Dust, Splash & Shock Proof:** Sealed to IP67, IDC45 will resist dust, water and shock damage, making it ideal for under bonnet installation.
- **80 Degrees Celsius:** IDC45 can safely operate (at a reduced charge rate) in extreme temperatures up to 80°C, as found in engine bays in hotter climates.
- **Temperature Compensation:** IDC45 will continually adjust its charge voltage to suit the battery temperature, protecting it from overcharge and overheating.
- **Push Button Chemistry:** Adjust battery chemistry at the touch of a button for optimum charging.



**45A SOLAR MPPT:** Using sophisticated MPPT (Maximum Power Point Tracking) solar regulator technology, IDC45 operates as a solar controller, maximising the power generated from panels.

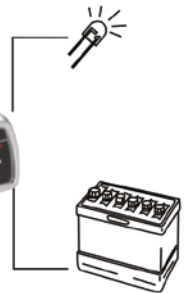
**REMOTE STATUS INDICATION:** An additional wire is provided for driving an external L.E.D indicator, in-cabin for example, to remotely display charging and fault status.



**SWITCHMODE TECHNOLOGY:** Featuring the latest synchronous switching technology, IDC45's efficiency exceeds 94% at typical full load conditions, converting your vehicle's 12V DC / 24V DC alternator power to a more complete charge and prolonging battery life.



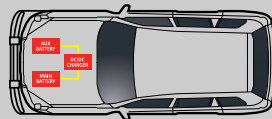
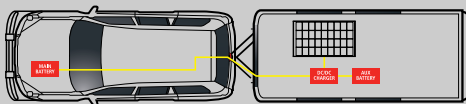
**IGNITION CONNECTION / VSR:** Ignition connection enables a "low input operation" mode, for compatibility with smart (variable voltage) alternators found in modern vehicles.



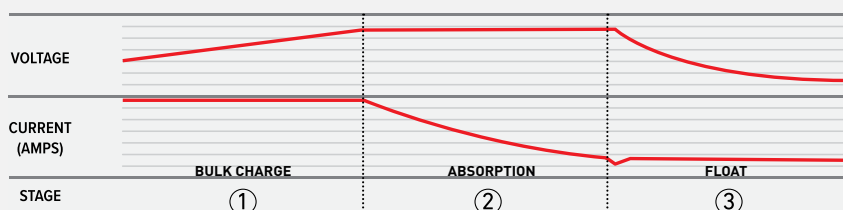
**MULTI-CHEMISTRY SUPPORT:** Supporting GEL, AGM, WET and CALCIUM batteries, IDC45 features periodic equalisation to remove acid stratification from calcium batteries.

**Caravan Installation:** Combines your solar and vehicle's power to deliver a 3 Stage charge ensuring longer battery life and performance.

**4WD Installation:** A sophisticated dual battery charger engineered for in-vehicle or under bonnet installation on vehicles fitted with traditional or smart alternators.



An advanced 3 Stage charging process ensures a safe and complete charge



### SPECIFICATIONS

PART NUMBER	IDC45
APPLICATION	DC-DC SOLAR BATTERY CHARGER
INPUT VOLTAGE	9-32Vdc
OUTPUT CURRENT	Input 9-11Vdc 37A, Input 11-32dc 45A
CHARGE CONTROL	14.1V (GEL), 14.4V (AGM), 14.7V (WET), 5.4V (CALCIUM)
SMART ALTERNATOR	12V VEHICLE: Turn On: 12.2-20V, Turn Off: <11.9V 24V VEHICLE: Turn On : >=24.4-32V, Turn Off: <24V
CONVENTIONAL ALTERNATOR	12V VEHICLE: Turn On: >=13.4-20V, Turn Off: <12.8V 24V VEHICLE: Turn On: >=26.8-32V, Turn Off: <25.6V