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DESCRIPTION:

This AMS charger automatically chooses the Solar/Wind input or the vehicles 12V electrical system to charge nominal 24V battery packs. It works with Ignition control, Constant Voltage Alternators, Euro 5 & 6 engines, STOP/START, Smart Alternator charging systems & Vehicles with Regenerative Braking, (Mercedes Benz Blue Efficiency Vehicles, VW Blue Motion Vehicles, Ford ECOnetic vehicles, Vauxhall ecoFlex vehicles to name a few).

The AMS charger monitors the solar input to determine whether the vehicle alternator or solar panel input should be used to charge the secondary battery. When using the solar input the charger uses a maximum power point tracking algorithm (MPPT) to ensure maximum use of the solar/wind energy source and disconnects the solar input if the solar voltage exceeds acceptable limits (<32V).

The AMS charger charges at up to 15A charging currents, and has a protection circuit to prevent damage from current overload or overheating. The software controlled switching converter provides a low noise output (<50mV)closely regulated against variations in input voltage & changes in output load current.

The charging cycle is configured to suit most types of lead acid including Gel, AGM and can easily be reprogrammed to fit a particular type of battery or customer specification using the **Ablemail Software Interface (ASI)**. The serial interface can be used to interface to other ABLEMAIL products or the Vehicle Power Management System.

A Interface Card can be added to fine tune the parameters which optimise speed of charge and battery life. The Interface Card adds Remote Output Voltage monitoring for when the secondary battery is a long way from the charger and Battery Temperature monitoring for operating in extremely hot or cold conditions.

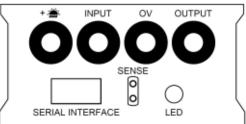
There is a charging status led & the Interface card allows remote indication (cab display) to be added. An assisted charge relay can be added to charge the vehicle/primary battery from the solar input .

The unit is assembled in an aluminium extruded case which allows reliable operation in harsh vehicle environments, It can be supplied with a variety of connection options see the Ablemail Hardware Options.

This product is part of a large range & if this product specification does not meet your requirements or you have any questions please contact our technical department .

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ISOLATION	Non-Isolated		
INPUT VOLTAGE	12Volt nominal vehicle and solar supply (8-32V) ; USE 12V SOLAR PANELS >100W		
OUTPUT VOLTAGE	24V nominal Varied as required for battery charging programme		
OUTPUT LOAD CURRENT	15A Continuous		
NO LOAD INPUT CURRENT	<2mA @ 12V input		
PROTECTION	Output overload & over temperature protection with fully automatic reset		
OPERATING TEMPERATURE	Maximum 70°C. Minimum -30°C		
STANDARDS	E11 Approval-Immunity requirements UNECE regulation 10 issue 4 Which covers all aspects of EN50489:2010 & CE Approval-Immunity to requirements of EN61204-3		
SIZE AND WEIGHT	Length: 250mm, Height: 46mm, Width: 124mm, 975g		
CONNECTIONS	+# INPUT OV OUTPUT		





For Guidance on component size Installation & troubleshooting: See Installation Instructions



Ablemail Electronics

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PART NUMBER : AMS12-24-15E

ABLEMAIL SOFTWARE INTERFACE (ASI) :

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Driter or select the	characteristics and then upliced them to the device	from the "device menu". Once correctly set up, save these settings as a new profile/template through the "Ne menu". This will be the only way to	olderktify a device once the
roat? been configured.			
Customer	Ablemal	Por help with device settings hower the mouse over the setting you	
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Output Type	Lead Add Battery Charger	*	
Output Regime	Constant Current Only		
Output 'Pleat' Volta			
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Battery Voltage	24V Bathery	×	
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