

# **Ablemail Electronics**

A Division of Merlyn Electronics

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### PART NUMBER : AMC24-24-60E

#### **DESCRIPTION**:

This AMC charger works on vehicles with a 24V electrical system to charge nominal 24V battery packs. It works with Ignittion 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 unit can also charge Lithium batteries, The unit delivers 60A charging currents, The unit has output overload & over temperature protection with a fully automatic reset, The 24V input and 24V outputs share a common negative. The software controlled switching converter provides a low noise output (<100mV)closely regulated against variations in input voltage & changes in output load current. The software optimises the battery charging cycle, If a greater charging current is required units can be run in parallel or a bigger unit selected from the range.

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. The serial interface and powerful in built microcontroller and software allow the converter to work as the system power management controller.

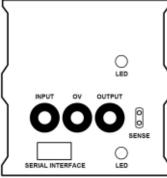
A Interface Card can be added to allow further optimisation of the charging cycle. The Interface Card adds the option for Remote Input Voltage monitoring, Remote Output Voltage monitoring & Battery Temperature monitoring. Each of these inputs can be used to fine tune the parameters which determine speed of charge and battery life, The unit can switch the charger output on when supply voltage reaches 26.2V (engine running detection /Ignition feed on).

There is a charging status led and the Interface card allows remote indication (cab display) to be added.

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 requirement please contact our technical department.

ISOLATION	Non-Isolated
INPUT VOLTAGE	24Volt nominal vehicle supply (9-32V).
OUTPUT VOLTAGE	24V Varied as required for battery charging programme
OUTPUT LOAD CURRENT	60A max. See AMNperformance for more detail
NO LOAD INPUT CURRENT	Max 4mA @ 24V 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: 92mm, Width: 124mm, 1840g
CONNECTIONS	$\sum$





For Guidance on component size Installation & troubleshooting: See Installation Instructions 60A

The product images shown are for illustration purposes only. Ablemail Electronics reserves the right to change product images & specifications at any time without notice.



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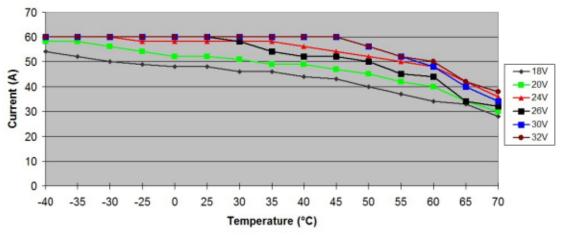
Merlyn House, Merlyn Rd, Salford, M6 6EL Tel: +44(0)161 745 7697 Fax: +44(0)161 737 5615 info@ablemail.co.uk www.ablemail.co.uk

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Produkt Norge     I// LA Charge       Outgukt Type     Leid Aud Bittery Outgip       Outgukt Type     Constant Connect Only       Outgukt Norge     Constant Connect Only       Outgukt Norge     Samona       Battery Wolksgie     Samona	Produkt Name     I// LA Charger       Cudauk Topin     Land Add Bottery Charger     Im       Cudauk Negine     Constant Current Coly     Im       Cudauk Negine     Constant Current Coly     Im       Cudauk Negine     Site Multicurrent Coly     Im       Baltery Viologie     Site Multicurrent Coly     Im       Ran Cartrati     Adenator/Nagio Coreol     Im       Ran Cartrati     Adenator/Nagio Coreol     Im       Ran Cartrati     Site Multicurrent Tome     Im       Site Multicurrent Tome     Im     Im       Ran Cartrati     Site Multicurrent Tome     Im       Lane Noar				
Cubic Royae     Ised Aud Bottery Charger       Cubic Royae     Cubic Royae       Cubic Royae     Cubic Royae       Cubic Royae     Sambar Cubic Cubic Royae       Cubic Royae     Sambar Cubic Royae       Back Viduage     Sambar Cubic Royae       Bathery Viduage     Sambar Cubic Royae       Ramotar Royae     Sambar Cubic Royae       Ramotar Royae     Sambar Cubic Royae       Ramotar Cubic Royae     Sambar Cubic Royae       Sambar Cubic Royae     Sambar Cubic Royae	Output Type     Ised Add Biblitery Charger       Output Type     Contract Current City       Output Type     Current Current City       Output Type     Ised Add Biblitery Charger       Bastery Wager     Ised Add Biblitery Charger       Remoter Type     Output Charger       Alemater Type     Structure There       Alemater Type     Structure There       Bastery Wager     Structure There       Structure There     Structure There				kon
Output Higgine     Contract Control City       Output Hindi Voltage     12.490       Boats Voltage     13.097       Boats Voltage     24.900       Boats Tomas Catterial Off Voltage     24.900       Ann Catterial Off Voltage     27.90       Run Catterial Off Voltage     25.92       Status Output Control     25.92       Status Output Control     25.92       Law Power Mode     25.92       Status Output Control     25.92	Output Regime     Contract Control Only       Output Phone Vologe     12 440       Bosto Vologe     13 870       Bosto Vologe     2440 Descent       Bosto Vologe     2440 Descent       Bosto Vologe     2400 Descent       Bosto Vologe     2500       <	Product Name	129 LA Charger		wish to change:
Cubat That Yohang     12 4W       Dasat Yahangi     13 5W       Battery Yahangi     20 Dahanyi       Battery Yahangi     20 Dahanyi Control       Battery Yahangi     20 Dahangi Shahan       Battery Yahangi Control     20 Dahangi Shahan       Battery Yahangi Control     20 Dahangi Shahan       Alarn Odga Control     20 Dahangi Shahan       Alarn Odga Control     20 Dahangi Shahan       Law Power Made     20 Dahangi Shahan	Cubuch Thaff Volage     12.44/       Bodd Volage     13.09/       Bodd Volage     13.09/       Boddery Volage     244/       Boddery Volage     240/       Boddery Volage     250/       Boddery Vol	Output Type	Lead Add Battery Charger		
Boat Vatage     13.00%       Bottery Vatage     24 batarry       Bottery Vatage     24 batarry       Bane Same Same Same Same Same Same Same Sam	Boot Vittage     13.077       Bothey Vittage     2W batery       Bothey Vittage     2W batery       Bothey Vittage     2W batery       Render Trage, Did Off     Alerentar/Nagole Core of       Ran Cartral     Menaturing Core of       Ran Cartral Off Vittage     2.700       Ran Cartral Off Vittage     2.527       State Vittage Core of     2.527       State Vittage Core of C	Output Regime	Constant Current Only	8	
Bittery Wikkger     W battery     Image: Selection of Selecti	Bittery Wikkger     2W Sattery       Remote Terus. Cut OFF     ADAC       Ram Castral     Aberatur/Supple Coreo of       Aleratur On Wikkger     2 Toti       Pan Castral Off Wikkger     2 Coti       Ban Castral Off Wikker     2 Coti       Last Power Mode     2 Coti       Stater Ution Withow     2 Coti       Stater Ution Withow     2 Coti	Output "Heat' Volkage	12.499	8	
Remote Teng, Out Off     Advection/Supple Control       Ran Cantral     Adventain/Supple Control       Ran Cantral     Streats Tenser       Ran Cantral     Streats Onlyweight Control       Streats Onlyweight Control     Streats Onlyweight Control       Streats Onlyweight Control     ED Charging Status       Kamer Nobie     Eon Protection Hodee       Law Rover Nobie     Eon Nover Nobie	Remoter Sense, Cut Off Sonc.  Rain Cantral Adversator/Supple Control  Rain Cantral Adversator/Supple Control Rain Cantral Times Rain Cantral Off Voltage 2,700 2,5	Boost Yokage	13.099	4	
Ran Canthal     Atenstar/Napple Coreo ol       Ran Canthal Timer     Sthruat Timer       Ran Canthal Timer     Ran Canthal Timer       Ran Canthal On Walkage     2.700       Ran Canthal Of Walkage     2.500       Status Out/Suppl Coreo ol     Ran Canthal Of Walkage       Status Out/Suppl Coreo ol     Ran Canthal Of Walkage       Status Out/Suppl Coreo ol     LiD Charating Status       Airen Outers Coreo ol     LiD Charating Status       Law Power Nolae     Core Nole	Run Canthal     Adensity/Supply Core of       Run Canthal Timer     S       Run Canthal Off Walage     2.50°       Run Canthal Off Walage     2.50°       States Output Chinhol     Core and Canthal Off Walage       Attern Object Chinhol     Core and Canthal Off Walage       States Output Chinhol     Core and Canthal Off Walage	Battery Vokage	2W Battery		
Aun Cantral Timer     5 Maruta Timer       Ran Cantral Off Voltage     2.701       Ran Cantral Off Voltage     2.502       Status Output Control     2.502       Jamen Output Control     LED Publication Modele       Law Power Node     Convertion	Application Timer     Monute Timer       Ran Cartral Off Walkap     2,700       Pain Cartral Off Walkap     2,500       State Output Control     25,500       State Output Control     25,000       Law Power Mole     2       Same Malas to Hover Convertor     200 Protection	Remote forg. Cut OF	90°C	9	
Ran Cartral Off Volkage 2.709 2.509 2.509 2.509 2.509 2.509 2.509 2.509 2.509 2.509 2.509 2.509 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50	Ran Cartral Off Walaya Ran Cartral Off Walaya Ban Flaton Off Walaya State Mathem Coff Walaya State Output Control LED Charging Statua Alarma Output Control LeD Protection Mode Con Power Mode Sams Nature Stateward Prover Convector Alarma Benown T (2011 Tais 7687	Run Cantrel	Attenator/Supple Control		
Pain Cantral Off Volage     2,501       Bite-Plation Off Volage     2,507       Status Output Control     LD: Changing Status       Alem Output Control     LD: Diversing Status       Low Power Mode     Control	Pain Caritral Off Walkage     2.501       Bike-Fridan Off Walkage     2.507       Status Output Control     LED Charging Status       Alarman Output Control     LED Frideotice Houles       Law Rower Mode     Image: Control       Same Malas to Linkwinnal Prover Convector     Image: Control	Run Control Timer	5 Minute Tener		
Maie-Plation Off Vallage Status Output Control Altern Output Control Low Power Mode Low Power Mode Sees Takes to Universal Power Convertor	Blue-Plation Off Vallage 2.557 Status	Run Control On Voltage	2.704	3	
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Sees Values to Universal Power Convertor	Sees Yakes to Universal Power Convertor	Status Output Control			
	Allerent Bosows T (701 Tab 7017	Status Output Control Alarm Output Control			
		Status Output Control Alarm Output Control Low Power Mode	Low Power Mode Disabled	8	
Allerend Flexibilities T 0781 145 7057		Status Output Control Alarm Output Control Low Power Mode	Low Power Mode Disabled	8	·

#### Maximum continuous current at 27.6V output [18V,32V]



For More Info see Ablemail Universal Power Convertor Performance Charts