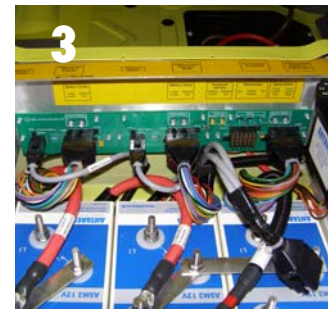
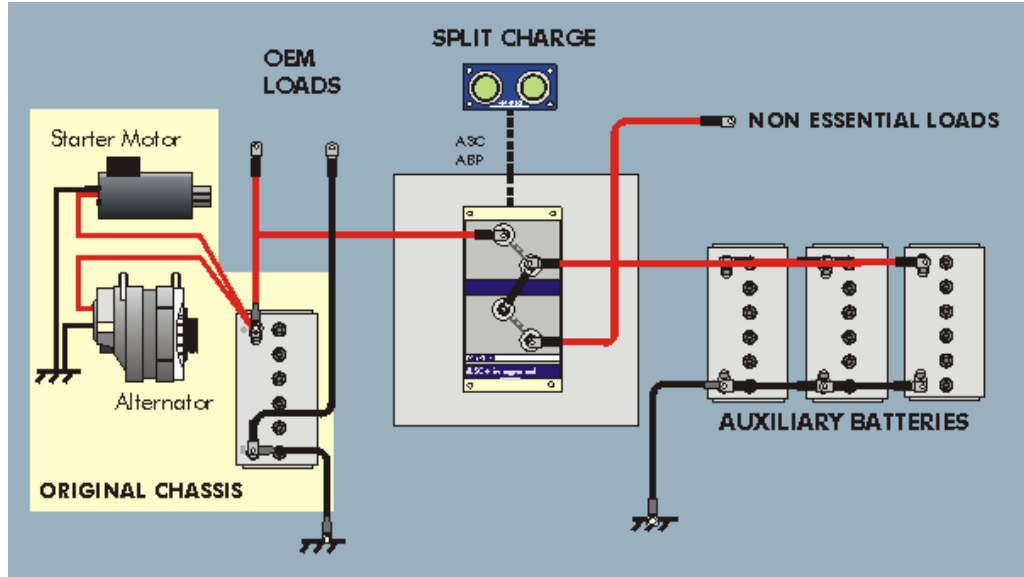


“All-in-one” battery protection!

BATTERY SWITCHING AND PROTECTION SYSTEMS



Specifying extra batteries on a vehicle has been made even simpler. Antares led the way with an innovative priority split charge, which has now become the standard method of split charging. What most specifiers and uses are not aware of, is that this is just the tip of the iceberg regarding the heavy duty power switching requirements on modern vehicles.

We have 3 levels of systems depending on your needs: the basic split charge, the modular ASC+ family and the full ASM3 Power Management System.

The table overleaf describes the various functions that may be needed. Antares combine these functions into a reliable, well supported, cost effective system.

1 Basic Split Charge

Fully automatic split charge – a very reliable well proven 140A and 200A split charge available in 12V and 24V versions.

2 Modular ASC+ Family

Fully featured modules to carry out any tasks: offered as ASC+ single function, ASC+ Dual function and ASC+ integrated. Switching currents 125A, 190A or 250A depending on requirement. Available in 12V and 24V.

3 Full ASM3 Power Management System

These are fully fitted systems which interface with the vehicle via CANBUS, interface with other systems, offering additional features such as virtual alternator, automatic engine start, inter-module integration.



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ISO 9001:2000

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ANTARES
engineering with answers

“All in one battery” protection!

BATTERY SWITCHING AND PROTECTION SYSTEMS

Function	Description	ASC	ASC+	ASM3
PRIORITY SPLIT CHARGE	Used where one or two auxiliary batteries are used, (sometimes called “house”, “technical” or “communications” batteries), priority split charge ensures that the auxiliary loads and battery are charged only after the vehicle start battery and vehicle loads are fully supported, in effect isolating the auxiliary system.	✓	✓	✓
ASSURED START	Used where additional auxiliary batteries are connected back to the start battery during cranking, either automatically or via a manual push button switch to assist the start.	✗	✓	✓
MANUAL ISOLATION	At the press of switch the system isolates the batteries, and reconnects either automatically or on a further switch activation.	✗	✓	✓
TIMED ISOLATION	This is useful to ensure that loads such as lighting and heaters automatically switch off to preserve battery charge and thereby prolong battery life.	✗	✓	✓
LOW VOLTAGE CUT OUT	Used where certain heavy duty, non essential, loads such as heaters, aircon are switched off when the battery is in partial state of discharge leaving the remaining capacity to run essential equipment such as emergency lighting.	✗	✓	✓
DEEP DISCHARGE PROTECT	This avoids the battery being discharged below the point where sulphation accelerates thereby prolonging the life of the battery.	✗	✓	✓
ENGINE START PROTECT	When loads are powered from the start battery, the engine start protect disconnects at a point where the remaining capacity in the battery can still start the engine. Essential loads such as clocks, central locking, alarms and radio have their own by-pass supply.	✗	✓	✓
12/24 JUMP-START (DUAL VOLTAGE)	This innovative product enables a 12V auxiliary system to reconfigure itself to provide a 24V jump-start facility for trucks. It then reverts to 12V charging mode when instructed.	✗	✓	✓
TAIL-LIFT PSU PROTECTION	Tail-lifts and decks are often run by basic power supplies. These supplies can damage connected batteries. This unique feature protects the battery from dangerous conditions whilst still allowing charging from the PSU.	✗	✓	✓
HIGH/LOW VOLT LOAD PROTECT	Certain loads such as tail-lifts can be damaged by use at low voltages on discharged batteries. Some IT equipment may have a narrow operating voltage band. This feature protects the loads in certain conditions.	✗	✓	✓
VIRTUAL ALTERNATOR	This technique uses switching to enable batteries to be charged at voltages higher than that available from the alternator.	✗	✗	✓
INTEGRATION INTO VEHICLE & THIRD PARTY SYSTEMS	This involves using the microprocessor capabilities to communicate with other systems and to allow other systems to control its functionality.	✗	✗	✓