



ONBOARD POWER MANAGEMENT FOR 24V SERVICE BATTERY SYSTEMS

Smartpass 120T is a 24V multifunctional power management solution and split charging system for dual battery systems with starter battery and service battery. Smartpass 120T distributes, controls, and maximizes the available energy from your alternator to service battery and electrical consumers.

Smartpass 120T is to be used in applications where the alternator gives is able to deliver the desired charging voltage and the service battery has many parallel consumers with average load greater than 10A.

The battery guard function in Smartpass 120T will turn off equipment connected to consumer output when service battery voltage is too low, this protects the service battery from deep discharge and will increase lifetime of battery. To maximize the split charging process Smartpass will supply power to the connected consumers directly from alternator when motor is running.

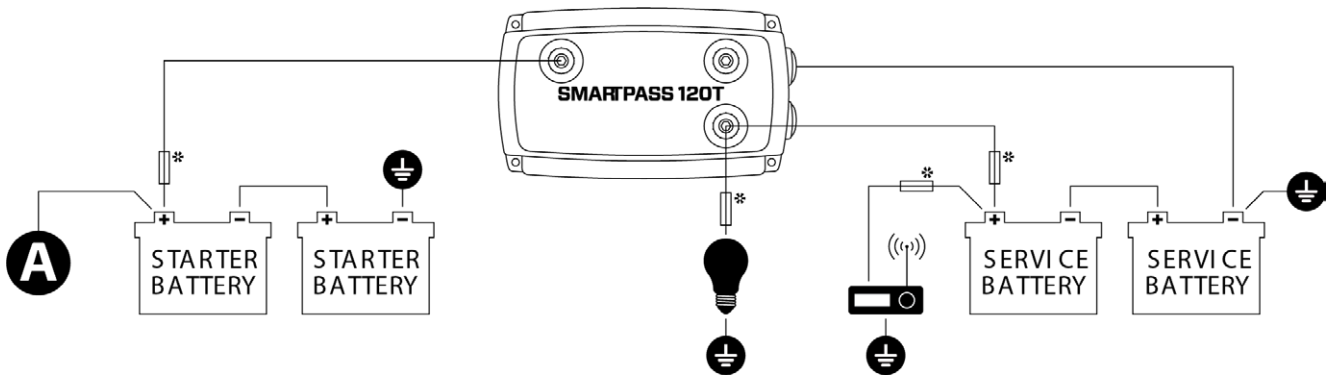
Smartpass 120T ensures a safe operation by safety features as Battery temperature protection, Dynamic overcurrent protection and Over temperature protection.

COMPATIBLE WITH D250T

The combination D250T together with Smartpass 120T will combine benefits from both devices and gives you the optimum power management system for your 24V service battery systems (auxiliary battery).

- Smart power management and split charging the service battery from alternator will give you the maximum power out from your battery system.
- Battery isolator that eliminates the need of diodes and VSR relays. D250T separates the starter battery from the service battery when the engine is not running.
- Can continuously distribute up to 120 A from the alternator to service battery and electrical consumers.
- Battery guard protects the service battery from deep discharge and will increase the lifetime of battery.
- Smart alternator compatible
- Totally silent operation due to a cooling system without fans or other moving parts.
- Smartpass can handle temporary inputs and outputs of up to 350 A, for safety the device have a dynamic over current protection.
- Safety features: Sensor for monitoring the service battery temperature, Dynamic over current protection and Over-temperature protection.
- Durable design that is splash and dust proof (IP65).
- 2-year warranty.
- **SUITABLE FOR:** Heavy Vehicles, Boats, Recreational vehicles, Busses, Transport trucks and all other vehicles with a 24V dual battery system.

SMARTPASS 120T



TECHNICAL DATA

INPUT	22, 8-32 VDC
OUTPUT	Max 120 A * (consumer output max 100A)
BATTERY TYPES	24 V: WET, MF, Ca/Ca, AGM, EFB, GEL
BATTERY CAPACITY	28-800 Ah
BACK CURRENT DRAIN*	Corresponding to less than 10 Ah/month
POWER SOURCE	24 V -> 24 V
BATTERY VOLTAGE	24 V
AMBIENT OPERATING TEMPERATURE	-20 °C to +50 °C (- 4 °F to +122 °F)
BATTERY CHEMISTRY	Lead acid
DEGREE OF PROTECTION	IP65
DIMENSIONS (L X W X H)	192 x 110 x 65 mm
NET WEIGHT (UNIT WITH CABLES)	0.7 kg
GROSS WEIGHT (UNIT IN BOX)	0.9 kg
WARRANTY	2 years

*) Total max output current for Smartpass is 120A and available current from alternator will be distributed into the two different output channels, Output Battery and Output Consumer. Specified value is the total current transferred to the two outputs.

*) Back current drain is the current that drains the battery if the charger is not connected to the mains. CTEK chargers have a very low back current.

GUARANTEED QUALITY WITH CTEK

CTEK customer support is available to answer any questions related to charging and CTEK chargers. Safety, simplicity and flexibility characterizes all products and solutions developed and sold by CTEK. CTEK supply chargers to more than 70 countries throughout the world. CTEK is also a reliable OEM supplier to many of the world's most prestigious car and motorcycle manufacturers.

For more information visit WWW.CTEK.COM

SMARTPASS 120T + D250T, THE PERFECT COMBINATION FOR DUAL BATTERY SYSTEMS

This installation will give a system that both can manage large parallel loads and in the same time charge and perform maintenance the service battery with the optimum voltage for a 24V dual battery system.

The battery charging will be more efficient and shorter as we are getting access to a higher current initially and that the parallel consumers will be powered directly from alternator.

