

APPLICATIONS:

Border control & observation

OPTIX APS

Autonomous power supply subsystem for Mobile Surveillance systems

OPTIX APS is a fully autonomous power supply subsystem for an in-vehicle use. It is specially developed for providing fully autonomous power supplying of Mobile surveillance systems.

APS is designed for pick-up trucks and it can provide power supply autonomous for up to 10 hours of continuous use.

Technical parameters

PARAMETER	OPTIX APS
Three independent power sources	<ul style="list-style-type: none"> • an internal batteries • a vehicle's alternator • an external power 230 V / 50 Hz
Switchable automatically sources of power	Yes
The charging process of the batteries not affecting the ongoing operation of system	Yes
Resistant to:	<ul style="list-style-type: none"> • short circuit • reversed polarity of power supply voltage • power supply voltage drops down to 0 V • overcharging • overheating • deep discharging of the internal batteries
Providing of an audible alarm:	<ul style="list-style-type: none"> • 30 minutes before reaching the maximum permissible discharge of the internal batteries level
Providing information about:	<ul style="list-style-type: none"> • current selected power source • current state of power sources: voltage, current charge / discharge, power consumption, estimated capacity of internal batteries, estimated working time of internal batteries, estimated operating time of internal batteries

<p>System of internal batteries</p>	<ul style="list-style-type: none"> • Maintenance free gel technology • Independent from the battery of the vehicle itself • The capacity of the internal batteries is calculated 25% higher than the maximum connected load during 10 hours continuous observation at 20 degrees Celsius
<p>Vehicle's alternator</p>	<ul style="list-style-type: none"> • A possibility to power the equipment set from vehicle's alternator is provided. • It can be also used as a source of power for charging the internal batteries.
<p>External power 230 V 50Hz</p>	<ul style="list-style-type: none"> • The system is equipped with a charger that allows direct charging of the batteries from the national power grid (230 V AC, 50 Hz). • The duration for a full charge of the batteries is less than 12 hours. • The length of the external cable for power supply is minimum 10 m. • The cable will be rubber insulated, suitable for outdoor use, with three wires.
<p>Grounding</p>	<ul style="list-style-type: none"> • Reliable grounding of the mobile system is ensured during battery charging