

# RTCU-M11 Series Battery Backup

## *Internal Battery Backup Module*

The RTCU-M11 Series Internal Battery Backup Module offers the opportunity to have your RTCU unit running regardless of external power failures. The Battery Backup Module includes three or six high capacity NiMH AAA batteries. An onboard advanced charge circuit ensures a quick and correct charge in order to maintain the capacity of the batteries.



The Battery Backup Module gives your application the possibility to run uninterruptible regardless of a power failure of the external power supply. The Battery Backup Module is very easy to install on all the RTCU-M11 series units and is carried out within minutes. The Battery Backup Module is available in two configurations; 700mAh (three batteries) version or 1400mAh (six batteries) version. The user can hereby choose a solution based on operating time and price in each individual application. With the easy-to-use RTCU-IDE program the user can easily detect a power failure and notify an alarm central or similar about the loss of external power. This can be used in various applications for example theft prevention, datalogging or vehicle tracking etc. When the RTCU-M11 unit is battery operated and the external power keeps to fail eventually the battery voltage drops below a hardware programmed threshold, and a Low Battery indication will occur. An advanced charge circuit is integrated into the Battery Backup Module, this ensures a quick and correct charge of the batteries. By integrating the charger into the Battery Backup Module the sophisticated charge process is taken out of the hands of the user. When the charger is enabled the batteries will be charged once a day (scheduled by the RTCU-M11 unit) or whenever a power failure have occurred. This will result in an always fully charged Battery Backup Module ready for use.

### Key features:

- ❖ Uninterruptable power supply for the RTCU-M11 series
- ❖ Fast charger onboard
- ❖ Easy installation – carried out within minutes
- ❖ Available in a 700mAh or 1400mAh configuration.
- ❖ Simple VPL interface
- ❖ Low battery voltage indication
- ❖ Charge in progress indication
- ❖ High or low charge current selectable with jumper

	Min	Typ	Max		
RTCU Operating Voltage*	10	-	36	VDC	* Operating below 10VDC will disable charging and the unit will gradually consume power from the battery.
Operating time*		7:30		hour	* Sending a SMS every 2 minutes with GPS fix info. PowerDown in between each SMS. (Measurement done using a 1400 mAh module @ 20 °C)
Operating time – PowerDown		>900		hour	
Charge time		1*		hour	* 2 hours for 1400mAh.
Storage temperature*	-20	-	+35	°C	* Storage at a higher temperature and/or for more than 12 months will increase the risk of deep discharging. * Operating at lower temperatures will reduce the capacity and lifetime of the battery.
Continuous operating temperature*	-15	-	+65	°C	
Charging operating temperature	0	-	+45	°C	
Humidity (non condensing)	5	-	90	%	
Weight	0.105			Kg	
External dimensions	W 79 x H 48 x D* 27 mm				* D with mounting spacers
Approvals	EN-50081-1 Emission EN-61000-6-2 Immunity				

*Technical data subject to change*

**For more information:**

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