TECHBASE
WE MAKE CONNECTIONS. SIMPLE

SuperCap
UPS-SC01

INDUSTRIAL
IoT Ready

Un-interruptable SuperCap Power Supply for Industrial IoT applications

The new **SuperCap UPS-SC01** backup power supply is equipped with a highly available backup feature to safely bridge fluctuations, drops or failures accompanying standard 9~30VDC supply voltage and avoid interruption of output voltage in industrial and automation environments.
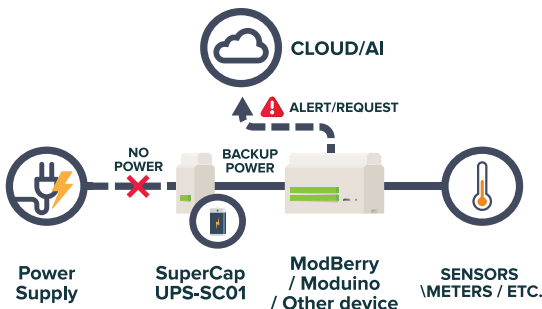
For this purpose **SuperCap UPS-SC01** utilizes two supercapacitors (so-called supercaps) as a durable, cycle-resistant and maintenance-free solution for backup energy storage and failure safety.

IIoT APPLICATION

As addition to Industrial IoT family of TECHBASE's products, such as **ModBerry** (Raspberry Pi Compute Module 3 powered) industrial gateways and **Moduino** (ESP32 powered) end-point devices, the SuperCap UPS-SC01 serves well as an additional, highly efficient and fanless power source to allow continuous operation of connected devices in difficult conditions, such as extended industrial temperature range. Perfect solution for a multi-range applications, especially for embedded IIoT / Industry 4.0 systems, where stability and high availability is most important.

SAFE SHUTDOWN

SuperCap UPS-SC01 allows the processes and data to be securely executed, saved or transferred, and the operating system to be safely shutdown or reboot, if the power source has been restored. The power failure alert can also be sent to cloud service, to perform custom task, specified by user or self-learning AI algorithm.

CLOUD/AI

⚠ **ALERT/REQUEST**

NO POWER ✗

BACKUP POWER

Power Supply | **SuperCap UPS-SC01** | **ModBerry / Moduino / Other device** | **SENSORS \METERS / ETC.**

SuperCap FEATURES

- **DC/DC transparent output with backup function**
- **Supercapacitors for energy storage**
- **Fanless and maintenance-free**
- **High cycle stability**
- **Suitable for 24/7 continuous operation**
- **Individual Design-In advice**
- **Excellent Service & Support**
- **Long-term availability at least 5 years**

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SPECIFICATION

INDUSTRIAL **IoT** Ready

COST-EFFECTIVE **& WIRELESS**
INDUSTRIAL IoT

Functions:	Power Fail signal output
	Energy Low alarm output
	Actual Energy Level analog output
	Force Reboot input
	Active reverse polarity protection

Power input:	**9 ~ 30VDC**, recommended: **≥40W (max. 42W)** power supply
Charge time:	**<60s** at maximum charge current
Power consumption:	aprox. **0.2~0.4W** power consumption when charged

Power output (powered):	**9 ~ 30VDC**
Power output (backup):	**10VDC, max. 12W**
Est. running time	up to **30s** running time with **10W** load
	up to **90s** running time with **2-3W** load *(RPi / ModBerry-type device)**
	up to **270s** running time with **1W** load, active mode *(ESP32 / Moduino-type device)**
	up to **600s** running time with **0.3W** load, idle mode *(ESP32 / Moduino-type device)**
	* using additional resources on device, e.g. modem connection will decrease significantly these results
Efficiency:	94% typ.

Working conditions:	Standard temperature range: **0 ~ 60 °C**
	Extended temperature range: **-40 ~ +65 °C (optional)**
Dimensions:	36 x 91 x 62 mm
Casing:	ABS, DIN rail mount

! Specifications is subject to change without notice. Some of the features are optional.
Technical parameters should be confirmed in the order details.