

Durable. Beautiful.

Pursuit of excellence and innovation

UPS6910C-24



Specifications 24V UPS DC power supply

UPS6910C-24



Product Features

- Compact aluminum-magnesium alloy housing, closed and dust-proof design
- Single-side interface, DIN rail wall-mounted installation
- DC 24V power supply, industrial standard design
- With USB control, set UPS parameters and extend shutdown time
- Maximum load support 80W
- Under 60W load, UPS can continuously supply power for more than 10 minutes
- Voltage range supports 12~24V customization

Naming convention

UPS6910C-24 is an online uninterruptible 24V DC power supply. All industrial computers can be equipped with UPS power supply. When the main power is abnormally shut down, the industrial computer equipped with UPS6910C-24 can keep the computer working for a while.

During this time, the industrial computer is notified to save the current status and data into hard disk or other storage devices. The continuous power supply time of the UPS to the industrial computer after power failure can be set and controlled through the USB port of the UPS connected to the industrial computer.

The UPS DC power module based on supercapacitor can effectively avoid the loss of important data after the system power failure and ensure stable operation throughout the whole process. UPS6910C-24 has secondary EMC protection and power filtering, small size, high reliability,

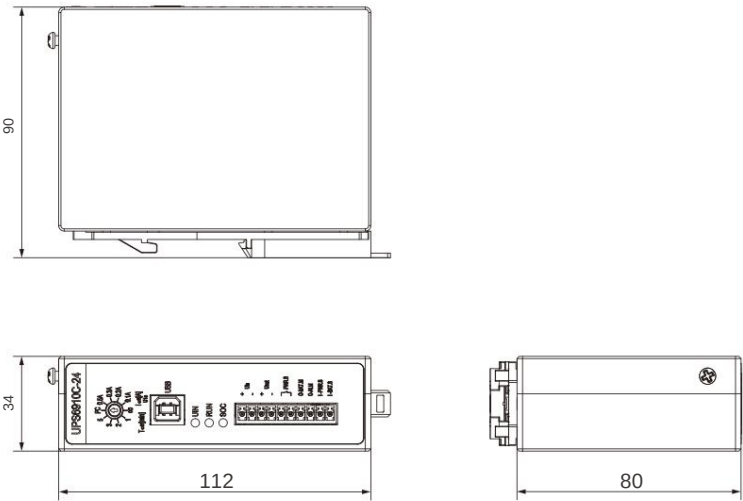
It has the characteristics of low output ripple, strong anti-interference ability, voltage stabilization and safety protection, etc. It also provides a variety of IO interfaces and standard communication protocols, which can be flexibly deployed in industrial environments.

Specifications

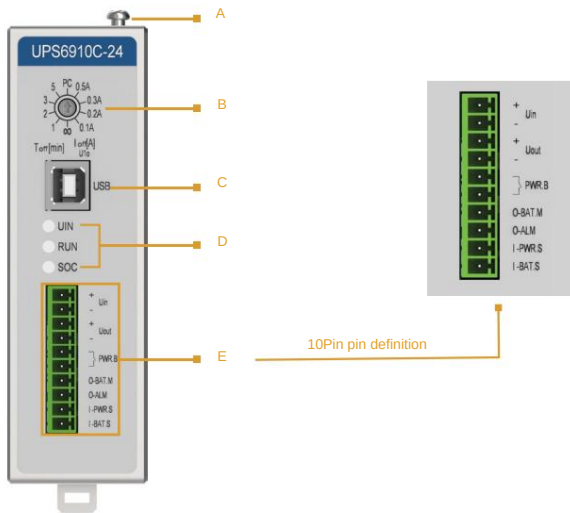
name		UPS6910C-24	
Power DC input	Voltage	DC24V(+15%~-20%) * Input voltage less than 19.2V will affect the charging effect	
	Current	4A	
	DC_IN protection	Anti-reverse connection, overvoltage protection, EFT±2000V, surge 2000V	
UPS DC output	voltage	24V (voltage range supports 12~24V customization)	
	Current	3.5A	
	DC_OUT protection	Overcurrent and overload protection	
Electrical parameters	No-load power	<3W	
	consumption Maximum	10W	
	charging power Maximum charging current	1.2A	
	Full of time	Operating voltage	Full time (h)
		DC24V(+15%~-20%) Load	4
	Full charge discharge time (greater than)	power (W) 30	Load holding time (minutes)
			25
		60	10
		80	2
Supercapacitor		5200F	
	Capacity life	Charge and discharge 50,000 times	
IO parameters	IO voltage	DC 24V	
	isolation method	Optocoupler	
	Isolation voltage	3.75kV	
Signal Type	signal specification	DC24V/3mA	
	PWR.B (PowerButton)	Forced power on button, passive switch signal input	
	BAT.M (Battery Mode)	Battery powered mode, PNP output	
	ALM (Alarm)	Alarm status, PNP type output	
	PWR.S (Power Status)	Powered device working status, PNP type input	
	BAT.S (Battery Start)	Forced battery power supply, PNP type input	
	Remote	Remote power on/off signal, signal relay output (customized function, no such interface by default)	
	Communication	USB	
	Interface	Modbus-RTU	
Environmental parameters	Communication	-20~60y	
	Protocol Working	-40~80y	
	Temperature Storage	5~95%(no condensation)	
	Temperature	DIN-Rail Installation	
	Working Humidity Installation Method Product Net Weight	0.5kg	

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Dimensions Unit: mm



External I/O Interface



Interface description:

- A: GND
- D: UPS working status light
- B: Working mode setting code disk E: DI/DO interface
- C: USB communication interface

Pin signal	name	Function
1	Uin+	Input power positive DC24V(+15%~20%)
2	Uin-	Input power negative pole
3	Uout+	Output power positive UPS external power output power positive pole (+Uin-2V)
4	Uout-	Output power negative pole UPS external power output power negative pole
5	PWR.B	Force power on key input y When Uin is supplying power: short the switch for 1 second. If the PC is turned off, disconnect it. Uout will be output again after 5 seconds, forcing the PC to power on again. y When the UPS is turned off: short-circuit the switch for 3 seconds to force the UPS to start output. And set to Forever mode until Uin is input normally or When the power level is lower than Alarm, the output stops and the currently set mode is executed. After normal shutdown, if there is no power alarm, at least Execute 1 minute output.
6	BAT.M	Battery mode signal output (PNP) y When Uin supplies power, the signal is disconnected and the output is low level. y When Uin is disconnected, the signal is turned on and the output is high level.
7	ALM	Battery warning signal output (PNP) y The power level is lower than the 40005 register value. y Batteries not installed. y Battery output is not turned on. When the above fault occurs, Alarm is turned on and outputs high level, otherwise it is turned off and outputs high level. Output low level
8	PWR.S	Powered equipment working status input (PNP) y Register 40008 = 0: Falling edge is valid (from on to off, representing the setting. The device is powered off), after Uin is disconnected, if the falling edge of PWR.S is triggered, the UPS After the delay time set in register 40011, turn off the Uout output, and then delay for 5 seconds UPS shutdown. y Register 40008 = 1: rising edge is valid (from disconnection to conduction, representing the setting. The UPS is powered off), after Uin is disconnected, if the PWR.S falling edge is triggered, the UPS After the delay time set in register 40011, turn off the Uout output, and then delay for 5 seconds UPS shutdown
9	BAT.S	Forced battery status input (PNP) When Uin is supplying power, BAT.S inputs a high level, forcing the UPS to work as Forever model

yOur company provides supporting Windows Smartups control software and protocols to support customers' secondary development

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LED Indication Description

Power on instruction

y 2 seconds after power-on, all lights will light up for 1 second in green, blue, yellow and red respectively, and then go out.

Function Indicator



UIN indicator:

- y Blue light on: input voltage is out of range;
- y Green light on: input voltage is normal;
- y Yellow light on: Input voltage is disconnected and the device is in battery powered state.

RUN indicator:

- y Red light on: Operation failure, 1) Input and output voltage and current sampling failure; 2) Battery output is not started/failed;
- y Yellow light on: Alarm, 1) low battery, 2) no battery installed, 3) battery output is not turned on;
- y Blue light on: Charging failure, 1) Charging is turned off when the temperature is higher than 75 degrees (charging is resumed when the temperature is lower than 70 degrees), 2) Charging failure (undervoltage or hardware failure), 3) Battery voltage is unbalanced;
- y Green light on: Normal operation.

SOC indicator:

- y Red light on: The battery is not installed or the battery contact is poor;
- y Yellow light on: the battery level is lower than the alarm value;
- y Blue light on: the battery level is between Alarm and Ready;
- y Green light on: The battery level is higher than the Ready value.

Packing List

USB cable	1m USB square port extension cable
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Note: If there is any change in packaging, no further notice will be given