

ARCHITECTURAL DOOR HARDWARE POWER SUPPLIES & TRANSFORMER CATALOG

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intldoorclosers.com





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POWER SUPPLIES & TRANSFORMERS

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Two (2) Output Switching Power Supply/Charger

POWER SUPPLY

AL175UL

AL175UL is a two (2) output Switching Power Supply/Charger that converts a 115VAC 60Hz input into two (2) individually PTC protected 12VDC or 24VDC outputs.

Specifications

Input:

- Input 115VAC, 60Hz, 0.6 amp.
- Access control trigger input.

Output:

- 12VDC or 24VDC selectable outputs.
- 1.75 amp supply current.
- Two (2) Class 2 Rated power-limited outputs.
 - Fail-Safe/Fail-Secure lock output (switched).
 - Auxiliary power output (unswitched).
- PTC protected outputs, rated @ 2.5 amp.
- Filtered and electronically regulated output.
- Short circuit and thermal overload protection.

Battery Backup:

- Built-in charger for sealed lead acid or gel type batteries.
- Automatic switch over to stand-by battery when AC fails.
- Maximum charge current 0.4 amp.



Supervision:

- AC fail supervision (form "C" contacts).
- Supervised Fire Alarm Disconnect (Latching w/reset or Non-Latching).

Visual Indicators:

- AC input and DC output LED indicators.

Electrical:

- Operating temperature: 0° C to 49° C ambient.
- 10.75-21.5 BTU/Hr.
- System AC input VA requirement: 69VA.

Mechanical:

- Enclosure Dimensions (H x W x D approx.): 8.5" x 7.5" x 3.5" (215.9mm x 190.5mm x 88.9mm).
- Product weight (approx.): 5.1 lbs. (2.31 kg).
- Shipping weight (approx.): 5.6 lbs. (2.54 kg).

Agency Approvals

	UL 294 UL Listed for Access Control System Units.		MEA - NYC Department of Buildings Approved.
	CUL Listed - CSA Standard C22.2 No.205-M1983, Signal Equipment.		CSFM - California State Fire Marshal Approved.



12VR REGULATOR MODULE

POWER SUPPLY

Dual 12VDC and 24VDC Output for IDC Power Supplies

12VR Voltage Regulator Module

The addition of the 12VR module enables dual 12VDC and 24VDC output capability.

With the IDC 600 Series power supply output set at 24VDC for locking devices and components, the addition of the 12VR provides a separate 12VDC, 500 mA output for 12VDC Access Controllers and readers or other devices. The need for separate power supplies for 12VDC and 24VDC requirements within the same system is eliminated.

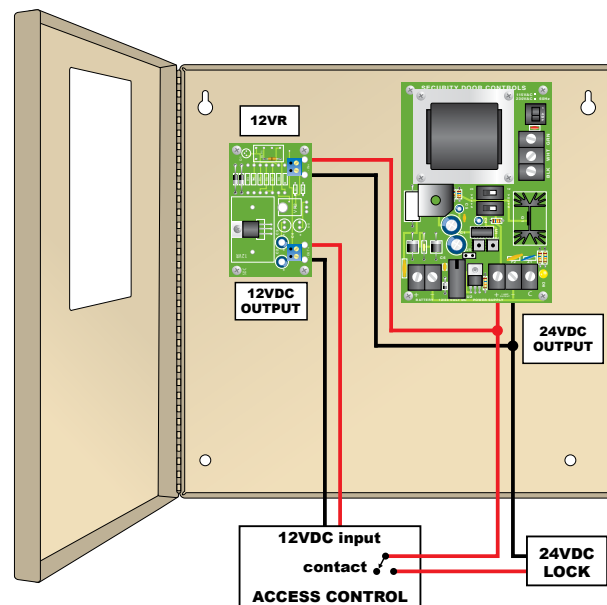
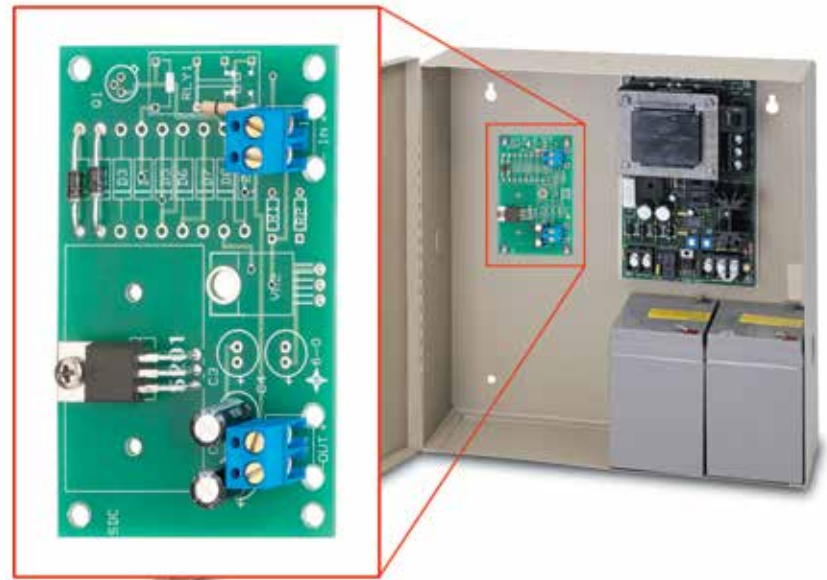
With the IDC 600 Series built in battery charger, the addition of batteries provides battery backup for both outputs. An auxiliary emergency release input is standard with IDC power supplies for failsafe locking systems.

Power Supply 12VR Capacity

- 602RF One Maximum
- 631RF One Maximum
- 632RF Two Maximum
- 634RF Four Maximum
- 636RF Six Maximum

Specifications

Model: 12VR
Input: 24VDC
Output: 500 mA @ 12VDC
Dimensions: 3.25"H x 2"W
 (83mm x 51mm)





MODULAR ACCESS CONTROL POWER SUPPLY

602RF 1 AMP

POWER SUPPLY

Modular Access Control Power Supply

Field Selectable 12VDC or 24VDC Output - Standard
Dual 12VDC and 24VDC Output - Optional
California Compliant Manual Release Optional

All IDC power supplies are equipped with a high performance transformer and highly reliable electronic components. Filtering and output voltage regulation provide protection and ensure the longevity of all system components. With the addition of IDC programmable controllers or relay modules, the user-friendly modular designs ensure versatility, interface capability and easy installation of electric locking devices, access controls and related safety equipment.

Class 2 Outputs

To simplify installations that do not require conduit, a Class 2 output is standard and a 6-foot power cord is optional for the 115VAC input where permitted by code.

Modular Design

Door control relay modules are available to meet virtually any application need. All wiring for lock hardware, access controls remote control and monitoring is terminated at one central location. Installation and troubleshooting is simplified.

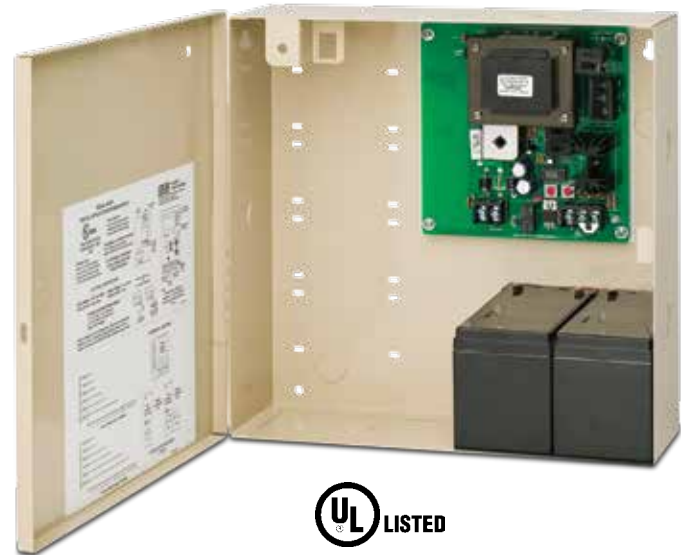
Modules may be factory installed or ordered separately for field installation as needed. All modules are individually fused for protection of multiple station systems.

Electrical Specifications

Input: 115VAC, 600 mA, 50/60 Hz (230VAC optional)
Output: 12/24VDC, 1 Amp
Battery Charger: 13.5/27VDC, 500 mA

Mechanical Specifications

Cabinet: 12" x 12" x 4", 18 GA
 305mm x 305mm x 102mm



Access Control Systems Unit ALVY
 Fire and Burglar Alarm Power Supply APHV
 Releasing Device Accessory SYSW

Features

Fire/Life Safety

A fire alarm input provides simultaneous release of all fail safe locks and door holders in case of an emergency.

Field Selectable Output

The output is field selectable to provide 12VDC or 24VDC.

Input and Output Protection

The AC input voltage is circuit breaker protected and the secondary output is PTC protected.

System Status

LED status indicators provide information regarding the AC input, DC output, and battery back up status. Outputs for remote annunciation are available.

Battery Charging Output

A separate PTC protected charging output provides 13.5 or 27 volts to fully charge the batteries. The secondary output is always precisely maintained at 12 or 24VDC to protect locking devices and components from over voltage while the batteries are charging. The specified secondary output current is also maintained while batteries are charging. **De-rating of the secondary output current is not required when charging batteries.**

Low Battery Disconnect

Batteries are disconnected from the output circuit prior to deep discharge preventing battery destruction.

Door Control Modules

IDC relay modules may be incorporated in the power supplies to meet virtually any application requirement, for single or multiple door control.



602RFL
 1 Amp Power Supply
 Less Box



Power Supply with Optional
 CR4 and PC 6 Foot Power Cord

Model

- 602RFL** 1 Amp power supply only
Less box
- 602RF** 1 Amp power supply
12" x 12" x 4" cabinet

Options

- PC** Power cord, 6 FT
- KL** Key lock cover
- MR-1** Push switch for manual reset of emergency release and AC power loss. California state compliant (CSFM). Consult your local Authority Having Jurisdiction (AHJ) for reset requirements.
- PS-1** System on-off push switch mounted inside cabinet
- PS-1A** System on-off push switch mounted on outside cover
- 230VAC** 230VAC input (Not UL)
- 14-2** 7 day skip a day timer

Battery Back-Up Selection

RB12V4 5 Amp hour battery

Emergency release input overrides battery back-up, maximum 4 batteries.

Back-up time for 12V and 24V using 5 Ah batteries

Load (Amp)	Time	
	*5 Ah	**10 Ah
.25	20 hours	40 hours
0.50	10	20
0.75	7.5	15
1.00	5	10

*12V (1 battery), 24V (2 batteries)

**12V (2 batteries), 24V (4 batteries)

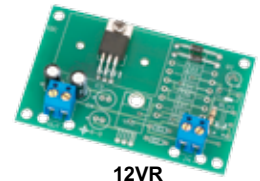
Module Capacity

- FB4:** 2 max
- PSM, 12VR:** 1 max
- CR4, ACM-1:** 2 max with 2 batteries
1 max with 4 batteries
- TD, CR, LR:** 4 max with 2 batteries
2 max with 4 batteries

Dual 12VDC and 24VDC Outputs

12VR 12 Volt Regulated and Filtered Output Module With the power supply output set at 24VDC for locking devices and components, the addition of the 12VR provides a separate 12VDC, 500 mA output for 12V access controls and components. The total load of both outputs combined may not exceed 1 Amp.

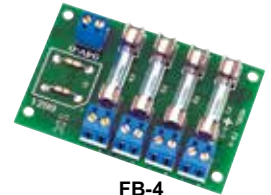
Input: 24VDC **Output:** 500 mA @ 12VDC



12VR

Multiple Outputs

FB-4 Four 2 Amp fuse protected outputs faster acting protection. (2 modules provide 8 outputs).



FB-4

Door Control Modules

Contacts: 2.5 Amps inductive, 5 Amps resistive @ 30VDC unless specified otherwise.

TD Time Delay Relay Module

Voltage input: 35mA @12/24VDC
Timer Adj: 1-120 seconds

- (1) Non-Fused, SPDT dry contact
 - (1) Fused SPDT voltage output
 - (1) N.O. dry trigger input
 - (1) N.C. dry trigger input
 - (1) Normally off voltage trigger input
 - (1) Anti-Tailgate N.O. timer reset input
- 3.25"W x 2"H (83 x 51mm)



TD

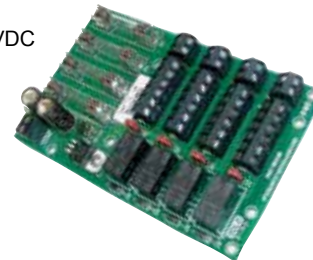


CR

CR-12, CR-24 Relay Module

Voltage input: 35mA, specify 12V or 24VDC

- (1) Fused, SPDT voltage output
 - (1) SPDT dry contact
 - (1) N.O. dry trigger input
 - (1) Normally off, voltage trigger input
- 3.25"L x 2"W (83 x 51mm)



CR4



LR

CR4 Four Station Relay Module

Voltage input: 120 mA @ 12/24VDC

- (4) Fused, 2A SPDT dry outputs or voltage outputs
 - (4) 2A SPDT dry outputs
 - (4) N.O. dry trigger inputs
- 3.25"L x 2"W (83 x 51mm)

ACM-1 Access Control Module

Voltage input: 45mA @ 12/24VDC

- (1) SPDT voltage output
 - (1) SPDT dry contact
 - (8) SPDT trigger inputs (4-NC, 4-NO)
 - (1) LED status indicator
- 5"L x 3.25"W (127 x 83mm)



ACM-1



14-2

LR-12, LR-24 Latching Relay Module

Voltage input: 45mA, specify 12V or 24VDC

- (1) Fused, SPDT voltage output
 - (1) N.O. dry trigger input
- 3.25"L x 2"W (83 x 51mm)

Remote Monitoring

PSM Power Supply Remote Monitoring Module

The PSM Power Supply Monitoring module provides 2-SPDT, 1 Amp contacts to remotely monitor power supply and battery status.
Input: 30mA @12/24VDC

Remote annunciation conditions include:

- System OK
- AC Fail – No DC Output
- Battery Powered
- System Off – No Battery



PSM



MODULAR ACCESS CONTROL POWER SUPPLY

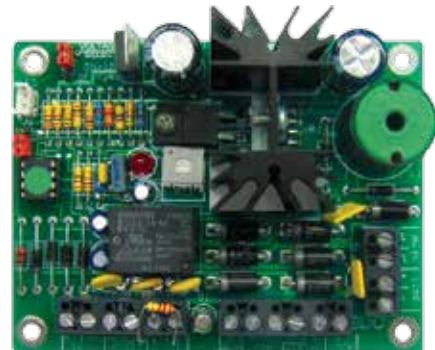
621 SERIES 1 AMP

POWER SUPPLY

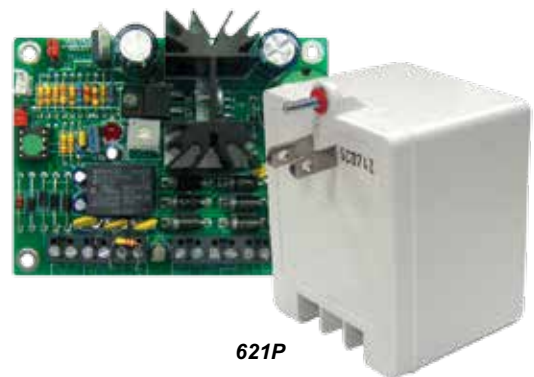
New Modular Access Control Power Supply-Easy as 1 • 2 • 3

The 621 Series access control power supplies are designed to support access controls and electric locking devices. Equipped with two power limited outputs, the modular design enables versatility for installations with or without battery back-up or fire command center interface for emergency lock release.

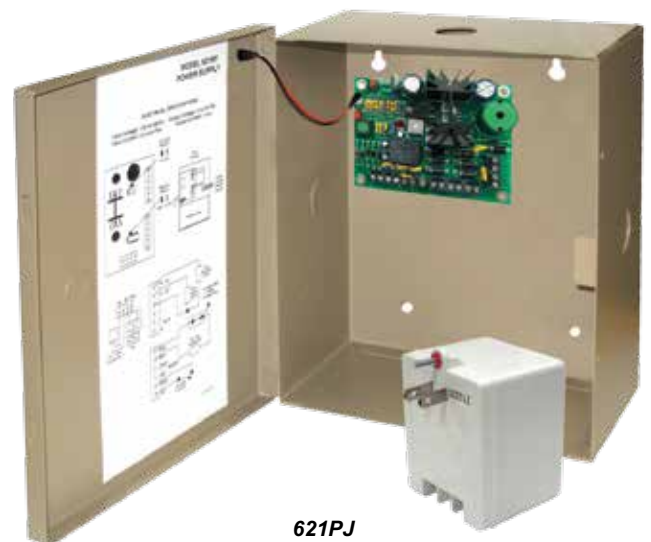
- 12VDC or 24VDC field selectable output
- 1 Amp maximum, filtered and regulated output
 - 1 power limited switched output
 - 1 power limited auxiliary output
- Two control inputs
 - 1 trigger input, normally open (NO)
 - 1 supervised emergency release input (latching with reset or non-latching)
- When latching emergency release is selected and the switched output is deactivated by emergency release or power loss, power is restored by manual means only.
- Short circuit and thermal overload protection
- Battery charger output
- Automatically switched to battery back-up when AC fails
- Board equipped with AC input, DC output and battery status LED indicator
- Enclosure equipped with AC input, DC output and battery status LED indicator



621B



621P



621PJ

Models

- 621B** Power supply module, 1 Amp 12/24VDC, Class 2
Input requirements: 40VA @ 24VAC
See options: TP2440
- 621P** Power supply module, 1 Amp, 12/24VDC, Class 2 with UL Listed plug-in transformer.
- 621PJ** Power supply module, 1 Amp, 12/24VDC, Class 2 with UL Listed plug-in transformer and small enclosure.

Options

- TP2440** 24VAC, 40VA transformer for use with 621B. UL Listed
- RB12V** 5Ah 12VDC battery (2 required for 24VDC)
- RB12V7** 8Ah 12VDC battery (1 max with enclosure)

Specifications

- 621B Input:** 40VA @ 24VAC
- 621P/621PJ Input:** 115VAC 60Hz, 0.6 Amp
- Output:** Filtered and electronically regulated
1 Amp @ 12/24VDC (field selectable)
- Battery Charger:** 150mA @ 12VDC
- Power Supply Board:**
4"W x 3"H x 1.625"D
(102mm x 76mm x 42mm)
- Enclosure:** 7.25"W x 8.375"W x 3.625"D
(184mm x 213mm x 92mm)

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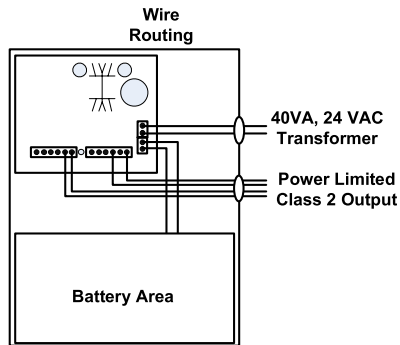
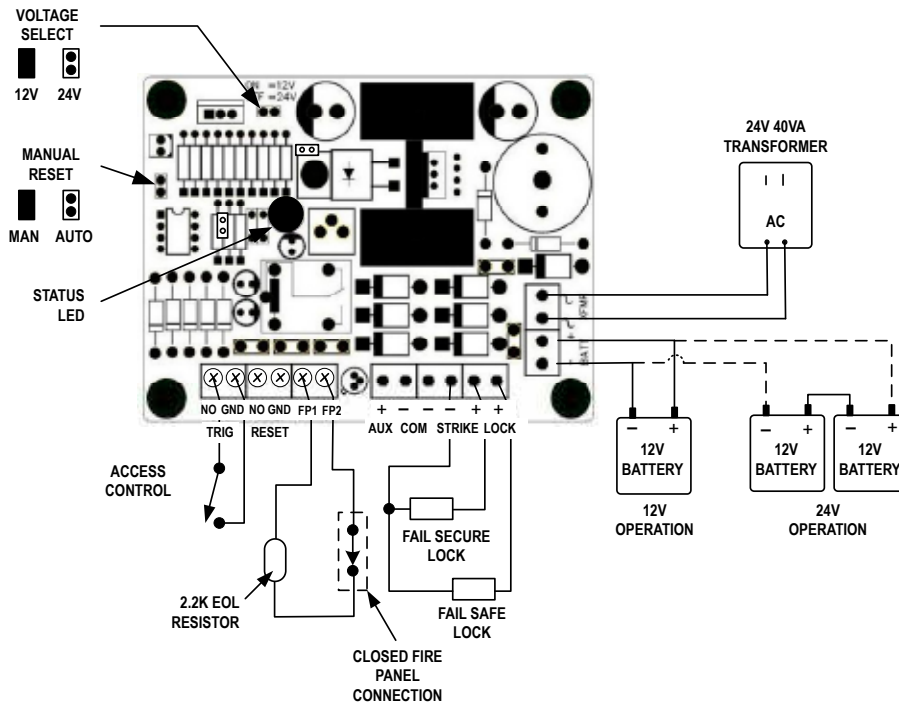
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621 - ELECTRICAL SPECIFICATIONS

Input Voltage: 24 - 28 VAC 40VA
Input Current: 1.2 amps Max.

Output Voltage: 12 or 24 VDC
Output Current: 1 amp*

*40VA Transformer required to achieve 1 Amp output



621 Led Modes:
On = Normal Operation
Off = No DC Output
Slow Flash = Loss of AC
 Battery Powered
Fast Flash = Trigger Input
 or
 Awaiting Reset



MODULAR ACCESS CONTROL POWER SUPPLY

631RF 1.5 AMP

POWER SUPPLY

Modular Access Control Power Supply

Field Selectable 12VDC or 24VDC Output - Standard
Dual 12VDC and 24VDC Output - Optional



SIA "Security Industry Finest"
ISC Expo



ALVY - Access Control Systems Unit
 URTZ - Fire and Burglar Alarm Power Supply
 SYSW - Releasing Device Accessory

Quality, Performance & Versatility

The IDC 631RF Power Supplies have been developed specifically to support electric locks and access controls. The high performance, heavy-duty circuitry is ideal for inductive loads and multi-door applications. The modular design is built around several different application control modules to meet your specific needs for virtually any electric lock system. IDC power supplies are designed to provide a well organized installation for individual or multi-door systems that may include locking devices, access controls, station controls and consoles for remote control, annunciation and fire/life safety system interface.

Manufactured & Tested to Rigorous Standards

IDC 600 Series power supplies are manufactured according to ISO 9001 certified quality standards.

Tests are conducted according to tough UL 1481 criteria for specific use with access controls, fire and burglary applications.

Modular Design

Ten different, individually fused door control modules are available for virtually any application. Time delays, latching relays and multiple station circuit breaker modules are available for custom configuration in the field or at the factory.

DIP Switch System Operation

Specification of the UR Universal Access Hardware Controller provides for six standard DIP switch selectable system and mantrap variations for multiple door systems.

Features

Filtered and Regulated

The output filtering stabilizes the DC output voltage and eliminates AC line noise. The solid state regulator maintains the selected output voltage at 12VDC or 24VDC regardless of the output load changes, including battery charging.

Field Selectable 12 or 24VDC

The output is field selectable for 12 or 24VDC output.

250 mA Battery Charger Output

A separate PTC protected, battery charger output provides 13.5VDC or 27VDC.

LED System Status Indicator

Amber - AC and DC voltages are OK
 Green - No DC output
 Red - No AC input, powered by batteries

Class 2 Outputs

Where permitted by code, conduit is not required when using Class 2 outputs.

Large Heavy Gauge Enclosure

Model 631RFA is housed in a 16 gauge, 16"W x 14"H x 6.5"D cabinet large enough to accommodate several additional modules and six 7 Amp hour batteries with plenty of room for wiring.

Value Added Features

Emergency Release Input

The Fire/Life Safety emergency release input is standard on all IDC power supplies.

Low Battery Disconnect

Batteries are disconnected from the output circuit prior to deep discharge preventing battery destruction.

Isolated Charging Circuit

While the charging output is 13.5VDC or 27VDC, the secondary output is unaffected and precisely maintained at the selected 12 or 24VDC. This ensures system components are powered by their specified voltage.

The secondary output current is maintained at the full 1.5 Amp capacity and is not de-rated when charging batteries.

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Ordering Information

631RFL	1.5 Amp Power Supply Only Less Box
631RF	1.5 Amp Power Supply 12"W x 12"H x 4"D
631RFA	1.5 Amp Power Supply 16"W x 14"H x 6.5"D

Options

PC	6 foot Power Cord.
KL	Key locked cover.
14-2	7-day skip-a-day timer.
PS-1	On-Off Push switch inside cabinet. 631RFA only.
PS-1A	On-Off push switch on cover.
230V	220/230VAC, 50/60 Hz input. (Not UL Listed)



RB12V4



RB12V7

IDC power supplies equipped with batteries provide continuous operation of access controls, locking devices and peripheral components during a power failure. **See Table 2 & 3 to determine battery requirements for standby power.**

RB12V4	12VDC, 5 Amp Hour Battery 631RF capacity, 4 maximum
RB12V7	12VDC, 8 Amp Hour Battery 631RFA capacity, 6 maximum

How to Order

Specify model, options, modules and batteries.

631RF x KL x PS-1 x 2 RB12V4

631RFA x KL x CR4 x 4 RB12V7

Electrical Specifications

Input:
115VAC @ 800mA, 50/60 Hz, Fused
(220/230VAC 50/60 Hz optional, not UL Listed)

Selectable Secondary Output:
12VDC or 24VDC @ 1.5 Amp,
poly fuse protected, Class 2

Battery Charger Output:
250mA @ 13.5 or 27VDC,
PTC protected

Mechanical Specifications

631RF: 12"W x 12"H x 4"D
(305 x 305 x 102mm)
Material: Steel, 20 Ga., (.912mm)

631RFA: 16"W x 14"H x 6.5"D
(406.4 x 355.6 x 165.1mm)
Material: Steel, 16 Ga., (1.52mm)



631RFL
1.5 Amp Power Supply
Less Box



631RF x PC x CR4 x 2 RB12V4



631RFA x UR4A x 4 RB12V7

Table 1: Control Module Capacity *

Power Supply:	631RF		631RFA	
	Battery Qty.		Battery Qty.	
	0-2	3-4	0-2	3-6
	RB12V4		RB12V7	
FB4	4	2	4	4
12VR	1	1	1	1
PSM	1	1	1	1
UR-2A, UR-4A	NA	NA	1	1
TD	4	2	8	4
CR	4	2	8	4
CR-4	2	1	4	2
ACM-1	2	1	4	2
LR	4	2	8	4
PB-8, PB-16	1	1	1	1

* Total combined load of modules and access control hardware may not exceed 1.5 amp.

Table 2: 12VDC Standby Power

5 Ah Battery Qty	1	2	4	
Amp Hours	5Ah	10Ah	20Ah	
Load/Amps	Power Back-up Time in Hours			
0.25	19.6	49	124	
0.50	7.8	20	49	
1.00	3.1	11.3	19.4	
1.50	1.8	4.5	11.3	
8 Ah Battery Qty	1	2	4	6
Amp Hours	8Ah	16Ah	32Ah	48Ah
Load/Amps	Power Back-up Time in Hours			
0.25	36.7	92	232	400
0.50	14.5	36	92	157
1.00	5.7	14.4	36	62
1.50	3.3	8.4	21	36

Table 3: 24VDC Standby Power

5 Ah Battery Qty	2	4	
Amp Hours	5Ah	10Ah	
Load/Amps	Power Back-up Time in Hours		
0.25	19.6	49	
0.50	7.8	20	
1.00	3.1	11.3	
1.50	1.8	4.5	
8 Ah Battery Qty	2	4	6
Amp Hours	8Ah	16Ah	24Ah
Load/Amps	Power Back-up Time in Hours		
0.25	36.7	92	158
0.50	14.5	36	62.7
1.00	5.7	14.4	24.8
1.50	3.3	8.4	14.4



MODULAR ACCESS CONTROL POWER SUPPLY

632RF 2 AMP

POWER SUPPLY

Modular Access Control Power Supply

Field Selectable 12VDC or 24VDC Output - Standard
Dual 12VDC and 24VDC Output - Optional



Quality, Performance & Versatility

The IDC 632RF Power Supplies have been developed specifically to support electric locks and access controls. The high performance, heavy-duty circuitry is ideal for inductive loads and multi-door applications. The modular design is built around several different application control modules to meet your specific needs for virtually any electric lock system. IDC power supplies are designed to provide a well organized installation for individual or multi-door systems that may include locking devices, access controls, station controls and consoles for remote control, annunciation and fire/life safety system interface.

Modular Design

Ten different, individually fused door control modules are available for virtually any application. Time delays, latching relays and multiple fuses are available for custom configuration in the field or at the factory.

DIP Switch Select System Operation

Specification of the UR Universal Access Hardware Controller provides for six standard DIP switch selectable system and mantrap variations for multiple door systems.

Manufactured & Tested to Rigorous Standards

IDC 600 Series power supplies are manufactured according to **ISO 9001-2000** registered quality standards. Tests are conducted according to tough UL criteria.



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ISC Expo



MADE IN THE USA



Access Control Power Supply - ALVY
General Purpose Power Supply - QQFU/QQFU7

Features

Filtered and Regulated

The output filtering stabilizes the DC output voltage and eliminates AC line noise. The solid state regulator maintains the selected output voltage at 12VDC or 24VDC regardless of the output load changes, including battery charging.

Field Selectable 12 or 24VDC

The output is field selectable for 12 or 24VDC output.

Battery Charger Output

A separate PTC protected, battery charger output provides 13.5VDC or 27VDC.

LED System Status Indicator

Amber - AC and DC voltages are OK
 Green - No DC output
 Red - No AC input, powered by batteries

Class 2 Output

Where permitted by code, conduit is not required for the Class 2 output.

Large Heavy Gauge Enclosure

Model 632RFA is housed in a 16 gauge, 16"W x 14"H x 6.5"D cabinet large enough to accommodate several additional modules and six 7 Amp hour batteries with plenty of room for wiring.

Value Added Features

Emergency Release Input (Standard)

A signal input from the fire life safety system turns off the secondary output releasing all failsafe locks. When not used for emergency release, this input may be used as main on-off control.

California Compliant Manual Reset of Emergency Release and AC Power Loss (Optional)

When this feature is required, should an AC power loss occur or the emergency release input is actuated, personnel must restore secondary output power manually at the power supply after the emergency release signal is reset and/or AC power is restored.

Low Battery Disconnect (Standard)

Batteries are disconnected from the output circuit prior to deep discharge preventing battery destruction.

Isolated Charging Circuit (Standard)

While the charging output is 13.5VDC or 27VDC, the secondary output is unaffected and precisely maintained at the selected 12 or 24VDC. This ensures system components are powered by their specified voltage.

The secondary output current is maintained at the full 2 Amp capacity and is not de-rated when charging batteries.

Ordering Information

- 632RFL** 2 Amp Power Supply Only
Less Cabinet
- 632RF** 2 Amp Power Supply
12"W x 12"H x 4"D Cabinet
- 632RFA** 2 Amp Power Supply
16"W x 14"H x 6.5"D Cabinet

Options

- MR-1** Push switch for manual reset of emergency release and AC power loss. California state compliant (CSFM). Consult your local Authority Having Jurisdiction (AHJ) for reset requirements. (See description page 1)
- PC** 6 foot Power Cord.
- KL** Key locked cover.
- 14-2** 7-day skip-a-day timer.
- PS-1** On-Off Push switch inside cabinet. 632RFA only.
- PS-1A** On-Off push switch on cover.
- 230V** 220/230VAC, 50/60 Hz input. (Not UL Listed)



RB12V4



RB12V7

IDC power supplies equipped with batteries provide continuous operation of access controls, locking devices and peripheral components during a power failure.

See Table 2 & 3 to determine battery requirements for standby power.

- RB12V4** 12VDC, 5 Amp Hour Battery
632RF capacity, 4 maximum
- RB12V7** 12VDC, 8 Amp Hour Battery
632RFA capacity, 6 maximum

Table 1: Control Module Capacity *

Power Supply:	632RF		632RFA		
	Battery Qty.	0-2	3-4	0-2	3-6
		RB12V4		RB12V7	
FB4	4	2	4	4	
12VR	4	2	4	4	
PSM	1	1	1	1	
UR-2A, UR-4A	NA	NA	2	1	
TD	4	2	8	4	
CR	4	2	8	4	
CR-4	2	1	4	2	
ACM-1	2	1	4	2	
LR	4	2	8	4	
PB-8, PB-16	2	2	2	2	

* Total combined load of modules and access control hardware may not exceed 2 amp.

Specification Example

Specify model, options, modules and batteries.

632RF x KL/PS-1 x 2 FB4 x 2 RB12V4
632RFA x KL x CR4 x 4 RB12V7



632RFL
Less Cabinet

Electrical Specifications

Input:
115VAC @ 800mA, 50/60 Hz, Fused
(220/230VAC 50/60 Hz optional)

Selectable Secondary Output:
12VDC or 24VDC @ 2 Amp,
poly fuse protected, Class 2

Battery Charger Output:
PTC protected 250mA @ 13.5 or 27VDC



632RF x PC x CR4 x 2 RB12V4

Mechanical Specifications

632RF:
12"W x 12"H x 4"D
(305 x 305 x 102mm)

Material: Steel, 20 Ga., (0.912mm)

632RFA:
16"W x 14"H x 6.5"D
(406.4 x 355.6 x 165.1mm)

Material: Steel, 16 Ga., (1.52mm)



632RFA x UR4A x 4 RB12V7

Table 2: 12VDC Standby Power

5 Ah Battery Qty	1	2	4	
Amp Hours	5Ah	10Ah	20Ah	
Load/Amps	Power Back-up Time in Hours			
0.25	19.6	49	124	
0.50	7.8	20	49	
1.00	3.1	11.3	19.4	
1.50	1.8	4.5	11.3	
2.00	1.2	3.1	7.7	
8 Ah Battery Qty	1	2	4	6
Amp Hours	8Ah	16Ah	32Ah	48Ah
Load/Amps	Power Back-up Time in Hours			
0.25	36.7	92	232	400
0.50	14.5	36	92	157
1.00	5.7	14.4	36	62
1.50	3.3	8.4	21	36
2.00	2.3	5.7	14.4	24.7

Table 3: 24VDC Standby Power

5 Ah Battery Qty	2	4	
Amp Hours	5Ah	10Ah	
Load/Amps	Power Back-up Time in Hours		
0.25	19.6	49	
0.50	7.8	20	
1.00	3.1	11.3	
1.50	1.8	4.5	
2.00	1.2	3.1	
8 Ah Battery Qty	2	4	6
Amp Hours	8Ah	16Ah	24Ah
Load/Amps	Power Back-up Time in Hours		
0.25	36.7	92	158
0.50	14.5	36	62.7
1.00	5.7	14.4	24.8
1.50	3.3	8.4	14.4
2.00	2.3	5.7	9.8



MODULAR ACCESS CONTROL POWER SUPPLY

634RF 4 AMP

POWER SUPPLY

Modular Access Control Power Supply

- **Field Selectable 12VDC or 24VDC Output - Standard**
- **Dual 12VDC and 24VDC Output - Optional**



Quality, Performance and Versatility

The IDC 634RF Power Supplies have been developed specifically to support electric locks and access controls. The high performance, heavy-duty 4 Amp circuitry is ideal for inductive loads and multi-door applications. The modular design is built around several different application control modules to meet your specific needs for virtually any electric lock system. Documentation is provided to ensure a well organized installation for individual or multi-door systems that may include locking devices, access controls, station controls and consoles for remote control, annunciation and auxiliary emergency release interface. IDC 600 Series power supplies are manufactured according to ISO 9001 - 2000 certified quality standards.

Modular Design

Ten different, individually fused door control modules are available for virtually any application. Time delays, latching relays and multiple station circuit breaker modules are available for custom configuration.

DIP Switch Select System Operation

Specification of the UR Series Access Hardware Controller provides for six standard DIP switch selectable system and mantrap variations for multiple door systems.



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MADE IN
THE USA



Access Control Power Supply - ALVY
General Purpose Power Supply - QQFU/QQFU7

Features

Filtered and Regulated

The output filtering stabilizes the DC output voltage and eliminates AC line noise. The solid state regulator maintains the selected output voltage at 12VDC or 24VDC regardless of the output load changes, including battery charging.

Field Selectable 12 or 24VDC

The output is field selectable for 12 or 24VDC output.

Class 2 Output

The 634RF Power Supply may be configured to use one 4 Amp output or two 2 Amp, Class 2 outputs. Where permitted by code, conduit is not required for low voltage wiring when using Class 2 outputs. The total current draw from all outputs must not exceed 4 Amps.

Battery Charger Output

A separate PTC protected, battery charger output provides 13.5VDC or 27VDC.

LED System Status Indicator

Amber - AC and DC voltages are OK
Green - No DC output
Red - No AC input,
powered by batteries

Large Heavy Gauge Enclosure

Model 634RF is housed in a 16 gauge, 16"W x 14"H x 6.5"D cabinet large enough to accommodate several additional modules and six 7 Amp hour batteries with plenty of room for wiring.

Value Added Features

Emergency Release Input (Standard)

A signal input from the fire life safety system turns off the secondary output releasing all failsafe locks. When not used for emergency release, this input may be used as main on-off control.

California Compliant Manual Reset of Emergency Release and AC Power Loss (Optional)

When this feature is required, should an AC power loss occur or the emergency release input is actuated, personnel must restore secondary output power manually at the power supply after the emergency release signal is reset and/or AC power is restored.

Low Battery Disconnect (Standard)

Batteries are disconnected from the output circuit prior to deep discharge preventing battery destruction.

Isolated Charging Circuit (Standard)

While the charging output is 13.5VDC or 27VDC, the secondary output is unaffected and precisely maintained at the selected 12 or 24VDC. This ensures system components are powered by their specified voltage.

The secondary output current is maintained at the full 2 Amp capacity and is not de-rated when charging batteries.

Model

634RF 4 Amp Power Supply
One 4 Amp output and two
2 Amp Class 2 outputs standard

Options

MR-1 Push switch for manual reset of emergency release and AC power loss. California state compliant (CSFM). Consult your local Authority Having Jurisdiction (AHJ) for reset requirements.
(See description page 1)

KL Key locked cover.

14-2 7-day skip-a-day timer.

PS-1 On-Off Push switch in cabinet.

PS-1A On-Off Push switch on cover.

230V 220/230VAC, 50/60/HZ input.



RB12V7

IDC power supplies equipped with batteries provide continuous operation of access controls, locking devices and peripheral components during a power failure.

See Table 2 & 3 to determine battery requirements for standby power.

RB12V7 12VDC, 7 Amp Hour Battery
634RF 6 max.

Specifications

Specify model, options, modules and batteries.
Example:

634RF x KL x 2 CR-4 x 6 RB12V7

634RF x PS-1 x 4 PTC4-075 x 6 RB12V7

Specifications

Input:

1 Amp @115VAC 50/60 Hz
(230VAC 50/60Hz optional, not UL listed)

Input Protection:

1 Amp, manually resettable circuit breaker

Selectable Secondary Output:

One, 4 Amp @ 12VDC or 24VDC or
Two, Class 2, 2Amp @12VDC or 24VDC

Output Protection:

Auto resetting Poly Fuse per output

Battery Charger Output:

500 mA @ 13.5 or 27VDC

Battery Charger Protection:

Auto resetting Poly Fuse

Dimensions: 16" W x 14" H x 6.5" D
(406 W x 355 H x 165 D mm)

Material: 16 gauge (1.52 mm) steel



634RF x 2-UR4A x 2 RB12V7

Table 1:
Control Module Capacity *

Power Supply:	634RF		
	Battery Qty.	0-2	3-6
		RB12V7	
FB4	8	4	
12VR	4	4	
PSM	1	1	
UR-2A, UR-4A	2	1	
TD	8	4	
CR	8	4	
CR-4	4	2	
ACM-1	4	2	
LR	8	4	
PB-8, PB-16	4	4	

Table 2: 12VDC Standby Power

8 Ah Battery Qty	1	2	4	6
Amp Hours	8Ah	16Ah	32Ah	48Ah
Load/Amps	Power Back-up Time in Hours			
2	2.3	5.7	14.4	24.7
2.5	1.7	4.2	10.7	18.3
3	1.3	3.3	8.4	14.3
3.5	1.1	2.7	6.8	11.7
4	.5	1.3	3.3	5.7

Table 3: 24VDC Standby Power

8 Ah Battery Qty	2	4	6
Amp Hours	8Ah	16Ah	24Ah
Load/Amps	Power Back-up Time in Hours		
2	2.3	5.7	9.8
2.5	1.7	4.2	7.3
3	1.3	3.3	5.7
3.5	1.1	2.7	4.6
4	.9	2.3	3.9

* Total combined load of modules and access control hardware may not exceed 4 amp.



MODULAR ACCESS CONTROL POWER SUPPLY

636RF 6 AMP

POWER SUPPLY



Modular Access Control Power Supply

- **Field Selectable 12VDC or 24VDC Output - Standard**
- **Dual 12VDC and 24VDC Output - Optional**

Quality, Performance and Versatility

The IDC 636RF Power Supplies have been developed specifically to support electric locks and access controls. The high performance, heavy-duty 6 Amp circuitry is ideal for inductive loads and multi-door applications. The modular design is built around several different application control modules to meet your specific needs for virtually any electric lock system. Documentation is provided to ensure a well organized installation for individual or multi-door systems that may include locking devices, access controls, station controls and consoles for remote control, annunciation and auxiliary emergency release interface. IDC 600 Series power supplies are manufactured according to ISO 9001 - 2000 certified quality standards.

Modular Design

Ten different, individually fused door control modules are available for virtually any application. Time delays, latching relays and multiple station circuit breaker modules are available for custom configuration.

Dip Switch Select System Operation

Specification of the UR Series Access Hardware Controller provides for six standard DIP switch selectable system and mantrap variations for multiple door systems.



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MADE IN
THE USA



Access Control Power Supply - ALVY
General Purpose Power Supply - QQFU/QQFV7

Features

Filtered and Regulated

The output filtering stabilizes the DC output voltage and eliminates AC line noise. The solid state regulator maintains the selected output voltage at 12VDC or 24VDC regardless of the output load changes, including battery charging.

Field Selectable 12 or 24VDC

The output is field selectable for 12 or 24VDC output.

Class 2 Output

The 636RF Power Supply may be configured to use one 6 Amp output or three 2 Amp, Class 2 outputs. Where permitted by code, conduit is not required for low voltage wiring when using Class 2 outputs. The total current draw from all outputs must not exceed 6 Amps.

Battery Charger Output

A separate PTC protected, battery charger output provides 13.5VDC or 27VDC.

LED System Status Indicator

Amber - AC and DC voltages are OK
Green - No DC output
Red - No AC input,
powered by batteries

Large Heavy Gauge Enclosure

Model 636RF is housed in a 16 gauge, 16"W x 14"H x 6.5"D cabinet large enough to accommodate several additional modules and six 7 Amp hour batteries with plenty of room for wiring.

Value Added Features

Emergency Release Input (Standard)

A signal input from the fire life safety system turns off the secondary output releasing all failsafe locks. When not used for emergency release, this input may be used as main on-off control.

California Compliant Manual Reset of Emergency Release and AC Power Loss (Optional)

When this feature is required, should an AC power loss occur or the emergency release input is actuated, personnel must restore secondary output power manually at the power supply after the emergency release signal is reset and/or AC power is restored.

Low Battery Disconnect (Standard)

Batteries are disconnected from the output circuit prior to deep discharge preventing battery destruction.

Isolated Charging Circuit (Standard)

While the charging output is 13.5VDC or 27VDC, the secondary output is unaffected and precisely maintained at the selected 12 or 24VDC. This ensures system components are powered by their specified voltage.

The secondary output current is maintained at the full 2 Amp capacity and is not de-rated when charging batteries.

Model

636RF 4 Amp Power Supply
One 4 Amp output and two
2 Amp Class 2 outputs standard

Options

MR-1 Push switch for manual reset of emergency release and AC power loss. California state compliant (CSFM). Consult your local Authority Having Jurisdiction (AHJ) for reset requirements. (See description page 1)

KL Key locked cover.

14-2 7-day skip-a-day timer.

PS-1 On-Off Push switch in cabinet.

PS-1A On-Off Push switch on cover.

230V 220/230VAC, 50/60/HZ input.



RB12V7

IDC power supplies equipped with batteries provide continuous operation of access controls, locking devices and peripheral components during a power failure.

See Table 2 & 3 to determine battery requirements for standby power.

RB12V7 12VDC, 7 Amp Hour Battery
636RF 6 max.

Specifications

Input:
1 Amp @ 115VAC 50/60 Hz
(230VAC 50/60Hz optional, not UL listed)

Input Protection:
1 Amp, manually resettable circuit breaker

Selectable Secondary Output:
One, 4 Amp @ 12VDC or 24VDC or
Two, Class 2, 2 Amp @ 12VDC or 24VDC

Output Protection:
Auto resetting Poly Fuse per output

Battery Charger Output:
500 mA @ 13.5 or 27VDC

Battery Charger Protection:
Auto resetting Poly Fuse

Dimensions: 16" W x 14" H x 6.5" D
(406 W x 355 H x 165 D mm)

Material: 16 gauge (1.52 mm) steel



636RF x 2 UR4A x 2 RB12V7

Table 1:
Control Module Capacity *

Power Supply:	634RF		
	Battery Qty.	0-2	3-6
		RB12V7	
FB4	8	4	
12VR	4	4	
PSM	1	1	
UR-2A, UR-4A	2	1	
TD	8	4	
CR	8	4	
CR-4	4	2	
ACM-1	4	2	
LR	8	4	
PB-8, PB-16	4	4	

Table 2: 12VDC Standby Power

8 Ah Batteries	1	2	4	6
Amp Hours	8Ah	16Ah	32Ah	48Ah
Load/Amps	Power Back-up Time in Hours			
2	2.3	5.7	14.4	24.7
2.5	1.7	4.2	10.7	18.3
3	1.3	3.3	8.4	14.3
3.5	1.1	2.7	6.8	11.7
4	.5	1.3	3.3	5.7
5	.7	1.7	4.2	7.2
6	.5	1.3	3.3	5.7

Table 3: 24VDC Standby Power

8 Ah Batteries	2	4	6
Amp Hours	8Ah	16Ah	24Ah
Load/Amps	Power Back-up Time in Hours		
2	2.3	5.7	9.8
2.5	1.7	4.2	7.3
3	1.3	3.3	5.7
3.5	1.1	2.7	4.6
4	.9	2.3	3.9
5	.7	1.7	2.9
6	.5	1.3	2.3

* Total combined load of modules and access control hardware may not exceed 4 amp.



DOOR CONTROL MODULES

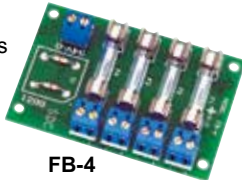
DOOR CONTROL

Door control relay modules ensure compatibility of access hardware components and simplify system installation and troubleshooting. Different modules may be specified for one power supply.

The isolated relay design allows small gauge cable runs of 22 gauge wire up to 1000 feet from the trigger device to the module.

MULTIPLE FUSED OUTPUT

FB-4 Four 2 Amp fuse protected outputs allow for precisely calculated circuit protection. Four modules provide 16 outputs.



FB-4



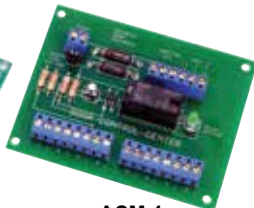
TD



CR



CR4



ACM-1



LR



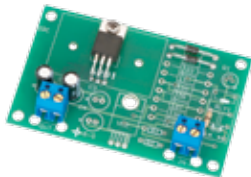
PB-8



PB-16



14-2



12VR



PSM

Contacts: 2.5 Amps inductive, 5 Amps resistive @ 30VDC unless specified otherwise.

TD Time Delay Relay Module

Voltage input: 35mA @12/24VDC
Timer Adj: 1-120 seconds
(1) Non-Fused, SPDT dry contact
(1) Fused SPDT voltage output
(1) N.O. dry trigger input
(1) N.C. dry trigger input
(1) Normally off voltage trigger input
(1) Anti-Tailgate N.O. timer reset input
3.25"W x 2"H (83 x 51mm)

CR-12, CR-24 Relay Module

Voltage input: 35mA, specify 12V or 24VDC
(1) Fused, SPDT voltage output
(1) SPDT dry contact
(1) N.O. dry trigger input
(1) Normally off, voltage trigger input
3.25"L x 2"W (83 x 51mm)

CR4 Four Station Relay Module

Voltage input: 120 mA @ 12/24VDC
(4) Fused, 2A SPDT dry outputs or voltage outputs
(4) 2A SPDT dry outputs
(4) N.O. dry trigger inputs
6"L x 3"W (152 x 76mm)

ACM-1 Access Control Module

Voltage input: 45mA @ 12/24VDC
(1) SPDT voltage output
(1) SPDT dry contact
(8) SPDT trigger inputs (4-NC,4-NO)
(1) LED status indicator
4.25"L x 3.25"W (127 x 83mm)

LR-12, LR-24 Latching Relay Module

Voltage input: 45mA, specify 12V or 24VDC
(1) Fused, SPDT voltage output
(1) N.O. dry trigger input
3.25"L x 2"W (83 x 51mm)

PB-8 8 Amp Power Booster

Voltage input: 85mA @ 24VDC input
(1) N.O. Dry trigger Input:
(1) Fused SPDT voltage output
8 Amp Surge
1 Amp Continuous
3.25"W x 2"H (83 x 51mm)

PB-16 16 Amp Power Booster

Voltage input: 85mA @ 24VDC input
(1) N.O. Dry trigger Input:
(1) Fused SPDT voltage output
16 Amp Surge
1 Amp Continuous
3.25"W x 2"H (83 x 51mm)

14-212 14-224 Seven Day Timer

Field programmable, 7 day timer module recommended for automatic timed locking and unlocking of one door or all doors on the same circuit. Schedule up 6 events maximum on single or multiple days, manual on-off override. Replaceable lithium battery maintains time and schedule during power outage.
Input: 30mA, specify 12V or 24V AC/DC
SPDT dry contact, 16 Amps @ 30VDC
2.375"H x 2.375"W x 1.25"D (60.3 x 60.3 x 32mm)

DUAL 12VDC Outputs (Optionals)

12VR Voltage Regulator

12VDC regulated and filtered output provides with the power supply output set at 24VDC for locking devices and components, the addition of the 12VR provides a separate 12VDC, 500 mA output for 12VDC access controls and components. The total combined 12V/24V load may not exceed the maximum power supply output rating. Add up to four 12VR modules max.

Input: 24VDC
Output: 500 mA @ 12VDC

Remote Monitoring

PSM Power Supply Remote Monitoring Module

The PSM Power Supply Monitoring module provides 2-SPDT, 1 Amp contacts to remotely monitor power supply and battery status.

Remote annunciation conditions include:

- System OK
- AC Fail – No DC Output
- Battery Powered
- System Off – No Battery



TRANSFORMERS

POWER SUPPLIES



TR12

Plug-in DC Power supply with 2 secondary outputs.

- Primary: 120VAC, Grounded
- 1 Fused, Unregulated Lock Output: 12VDC @ 780 mA
- 1 Regulated Access Control Output: 12VDC @ 150 mA
- Screw Terminals



TJ2440

J-Box or Base Mounted Transformer

- Primary: 120VAC (wire leads)
- Secondary: 24VAC @ 1.65Amps (screw terminals)
- UL Listed, Class 2



TR24

Plug-In DC Supply

- Primary: 120VAC, grounded
- Secondary: Fused, unregulated 24VDC @ 1Amp
- 6 Ft. Cord



TB2450

Base Mounted Transformer

- Primary: 120VAC/240VAC (screw terminals)
- Secondary: 24VAC @ 2Amps (screw terminals)
- Field replaceable fuse
- UL Listed



TP1220

Plug-In Transformer

- Primary: 120VAC
- Secondary: fused, 12VAC @ 1.65Amps (screw terminals)
- UL Listed, Class 2



TB24100

Base Mounted Transformer

- Primary: 120VAC/240VAC (screw terminals)
- Secondary: 24VAC @ 4Amps (screw terminals)
- Field replaceable fuse
- UL Listed



TP2440

Plug-In Transformer

- Primary: 120VAC
- Secondary: fused, 24VAC @ 1.65Amps (screw terminals)
- UL Listed, Class 2



BR64XL

Full Wave Bridge Rectifier

- Input: 12 or 24VAC
- Output: 12 or 24VDC
- 4 Amps Maximum Load



UNIVERSAL DOOR CONTROL

MODULES

Field Programmable Access Hardware Controller



The UR4A is capable of providing the logic of 8 relays.

Time Delay Logic



Latching or Conventional Relay Logic



"Security Industry Finest"
ISC Expo East and West

- UR-2A** Two Station Controller
- UR-4A** Four Station Controller
- 6 Field Selectable Application Modes

The UR series is a microprocessor based controller that provides 7 different, field selectable application modes for two, three or four stations. 1 or 2 controller may be installed in IDC 600 series power supplies. Single and multiple controllers may be mounted in remote junction boxes and powered by a single power supply.

Interface and Centralized Wiring

The UR Series Access Hardware Controller provides complete system interface capability and centralized wiring of all components, including; access controls, electric locks, peripheral equipment and monitoring contacts.

Reduced Components and Engineering

Applications that require several individual relays may be costly and complicated, requiring additional engineering time to produce the proper system logic. The UR eliminates the need for multiple or different relays. All system logic is reduced to one controller.

Selectable Output Modes

- Conventional Relay
- Latching Relay (pulse on, pulse off)
Latch individual station or all stations
- Time Delay Relay 1-35 seconds
- *Dual, Latching & Time Delay Relay
- Mantrap - All doors normally locked
- Interlock - All doors normally unlocked
- Interlock - 1 door locked, 1 door unlocked. **UR-2A only**

*Primary input triggers the Time Delay
Auxiliary input triggers latch function

The relay mode may be different per individual station. When mantrap or interlock mode is selected all outputs operate the same.

Documentation

Several access control and mantrap system wire diagrams are provided for common applications.

UR-2A Specifications

- Input Voltage:** 12 or 24VDC +/- 10%
- Input Current:** 280 mA, at rest
350 mA, operating
- Trigger Inputs:** N.O. Dry, Optically Isolated
- Outputs:**
2 Fused SPDT Dry, 5 Amp @ 30VDC
2 Non-fused, SPDT Dry, 1 Amp @ 30VDC

UR-4A Specifications

- Input Voltage:** 12 or 24VDC +/- 10%
- Input Current:** 350 mA, at rest
430 mA, operating
- Trigger Inputs:** N.O. Dry, Optically Isolated
- Outputs:**
4 Fused SPDT Dry, 5 Amp @ 30VDC
4 Non-fused, SPDT Dry, 1 Amp @ 30VDC
- Dimensions:** 7" W x 5" H x 2" D
(177.8 x 127 x 50.8 mm)



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