Remote Managed Intelligent Power
Dual Voltage 4A/12V and 8A/24V (250W)
16 Auxiliary and 16 Managed Relay Outputs





U.S. Patent 8,566,651

ELECTRICAL RATINGS

	iSCAN250B			
Parameter	FP0250	B100	Unit	
Input Voltage	120 / 230	_	VAC	
Input Power (max)	282	_	Watts	
Output Voltage	24	12	VDC	
Output Current	8	4	Amps	
Battery Charge Capacity	80	_	Ah	
Efficiency	88	91	%	
Output Ripple	120	82	mVp-p	
Line Regulation	0.1	0.1	±%	
Load Regulation	2	.56	±%	
BTU Rating	109	10	BTU/Hr	
Managed Power Outputs	16	_		
Auxiliary Power Outputs	16	-		
Fire Alarm Interface	Yes	No		

*This data sheet

Similar Products	Description		
iSCAN150B-8	150W, 4A/12V and 4A/24V, 8 managed 8 aux outputs		
iSCAN250B-16*	250W, 4A/12V and 8A/24V, 16 managed 16 aux outputs		

iSCAN systems can be upgraded with additional accessory modules - contact factory for details and order number

DESCRIPTION

FLEXPOWER ISCAN is a patented smart power management system for security and life safety applications.

The iSCAN250B-16 is designed specifically to support the dual voltage requirement of 12 and 24VDC, this unit utilizes an FPO power supply to generate 24VDC and a B100 DC-DC Class 2 power limited supply to generate 12VDC which allows the entire system to run off one battery set.

The system provides sixteen (16) activation inputs and sixteen (16) monitored and controlled relay outputs. The managed inputs are capable of voltage or dry contact activation and the managed outputs are programmable to either of the two system voltages, fail-safe, fail-secure, fire alarm over ride, and AC loss over ride for egress lock control.

Each managed output may also be individually activated or deactivated through an embedded browser interface and monitored for voltage and current values via network or internet. Adjustable trigger points are provided for each output to generate an alert when that output is outside of selected parameters. Sixteen (16) auxiliary outputs are also provided for readers, REX devices, or other similar units with each output selectable for either continuous or switched DC.

BENEFITS

- > Sixteen managed relay outputs with multi-configurable modes of operation
- Sixteen auxiliary outputs for powering non critical devices like rex detectors that do not need to be monitored and controlled
- > Remote power / battery monitoring, with control and reporting of outputs for
 - Current and voltage with alerts when outside preset trigger points
 - Total power consumption
 - Device ON/OFF recycling
- > Microprocessor dual rate battery charger
- > Built in fire alarm disconnect with latch mode for Canada
- > Fault detection and reporting to host power supply and over the network
- > Lifetime Warranty

FLEXPOWER STANDARD FEATURES

 SmartZone 	Comprehensive output monitoring, reporting and control		
 TruWatt 	Delivers twice the current at 12V than at 24V		
 PwrHealth 	Intelligent battery charging, monitoring and SOC testing		
 VSelect 	Installer selectable output voltage		
• SureCharge	Microprocessor controlled battery charging		
 PowerCom 	Power supply programming / monitoring software		
 FlexConnect 	ect Dual voltage bus / pre-wired accesory board interconnects		
 Reliability+ 	Full fault protection / high efficiency / fiberglass pcb		
 GreenSmart 	RoHS compliant, lead free, energy efficient design		
 NetLink 	Network communication		

APPLICATIONS

> Applications

- Add remote lock management for banks, hospital wards, drug cabinets, high security areas, casinos, etc.
- · Live monitoring of remote or dangerous areas
- Perform remote battery tests on scheduled / manual basis
- · Supervise locks and devices for over stress
- Monitor power cabinet temperature
- Monitor external area temperature with remote probe

ISCAN SYSTEM STANDARD FEATURES

FAULT DETECTION AND REPORTING

The comprehensive fault detection and reporting mechanism of the FPO series provides for both local and remote fault reporting.

On-board visual indicators are provided to give immediate installer feed-back. Independent form C relay contacts are provided to report AC and system fault conditions to remote or auxiliary equipment. A door tamper switch is included.

Detected Fault Conditions:

- > AC Power: AC loss, AC low
- > DC Power and System
 - · Abnormal or loss of power supply operation
 - · Over current, over temperature condition
 - · DC output high, low
 - · Battery Presence, Earth Ground (user optional)
 - Reversed battery condition, blown fuse or loss of output voltage on selected accessory boards (detected on the power supply)

FIRE ALARM INTERFACE (FAI)

- Activation Methods
 - DC voltage: 9 to 33VDC, 3 to 15mA
 - Dry contact NO/NC
- Latch Enable: NC contact set or switch (typically for Canadian use)

12V SECONDARY VOLTAGE MODULE

The iSCANS system provides an additional 12VDC voltage through a secondary DC-DC module either to the B2 buss for use with other accessory boards, or via its own output terminals. The DC converter is powered comes from the 24VDC output of the main power supply, allowing the battery set to back up both the 24 and 12VDC output voltages without the need for a second battery set.

Output of the B100 is current rated for 4 Amps Class 2, power limited.

AUXILIARY POWER DISTRIBUTION MODULE

- Eight power distribution outputs Individually programmable to a continuous output drawn from either buss 1 or buss 2, typically used to program an output for either 12 or 24VDC
- **D8** 3A fused per output
- **D8P** 2.5A class 2, power limited per output
- > DC Presence: Green LED per output
- Removable terminals: accepts #14 to #24 AWG

MANAGED DEVICE CONTROL MODULE

- > Eight access control trip inputs
- > Eight individually protected lock control outputs
 - **M8** 3A fused per output
 - M8P 2.5A class 2, power limited per output

Each input may be programmed to respond to:

- Application of voltage between 9 and 33VDC
- Removal of voltage between 9 and 33VDC
- Normally open dry contact transition
- Normally closed dry contact transition
- Activation or deactivation through software

Each output may be programmed for the following modes:

- · Voltage output from power supply one
- Voltage output from power supply two
- · Fail-safe, Fail-secure
- · Fire alarm over ride for egress lock control
- AC loss over ride for egress lock control
- Trigger points based on voltage or current values to send an alert via email or SNMP

NETWORK COMMUNICATION MODULE

Network Interface for Monitoring / Reporting / Controlling

- > Network & email alerts for
- AC / System faults, outside preset voltage, current, and temperature settings
- Low battery condition / Fire Alarm Interface (FAI) or External Event activation
- Time-to-service reminders
- > 100 event time & date stamp buffer with Excel compatible reports
- SNMP interface: Network access of real time system parameters via SNMP v1, v2, or v3

AGENCY LISTINGS

USA CANADA
UL 294 ULC S318
UL 603 ULC S319
CSA C22.2 #107.1
CSA 22.2 #60950

ORDERING INFORMATION

Model Number	Input	Туре	Enclosure Info
iSCAN250B-16	120VAC	Fused	
iSCAN250B-16P	120VAC	Power Limited	Size: 24" x 20" x 6.5"
iSCAN250B-16-E	230VAC	Fused	Weight: 25 lb.
iSCAN250B-16P-E	230VAC	Power Limited	_

PN nomenclature



LifeSafety Power

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