



ACCESS BOX

v3.0

Designed for Trust



IDCUBE's innovative Access Box series is engineered for effortless installation of **Mercury** and **Aero** Access Control boards. With advanced smart features, a sleek and compact design, and compliance with stringent **global safety standards**, it delivers **unmatched reliability** and simplicity for critical industrial and commercial facilities.

Benefits

Versatility

The one-of-a-kind enclosures can support up to four boards (eight doors) of Mercury, Aero, and Vertx, and even eight boards of certain Mercury models without requiring additional peripherals.

Fire alarm integration

The enclosure integrates with a fire alarm system in fail-safe scenarios, cutting off door power during fire events to comply with emergency regulations and eliminating the need for access control controllers to perform this critical function.

Lift-off hinge

The enclosure door can be easily removed for installation and cabling, making implementation and maintenance easier.

Color-coded standoffs

The enclosure comes equipped with color-coded standoffs that make it easy to mount different boards. This simplifies the process of installation.

Compact dimensions

It is one of the most compact enclosures for typical two-doors, four-doors or eight doors access control scenarios, easily fitting into smaller spaces.

Battery charger with UPS function

The built-in battery charger with UPS function can charge up to four 12V-7Ah batteries, ensuring facility security during power outages.

Universal AC input/Full range

The power circuitry is designed to be compatible with all AC mains voltage levels, making installation worry-free.

100% full load burn-in test

The power circuitry has undergone a full-load burn-in test for endurance and stability, ensuring high reliability.

Indicator LEDs

The enclosure's power distribution board includes various LEDs that indicate the current status visually.

Power/Battery switches

The power distribution board in the enclosure includes switches for both AC mains and battery power cut-off, making maintenance operations easier.

Additional coolant fan compatibility

The enclosure supports the installation of up to four 40mm x 40mm coolant fans for reliable operation in high temperatures.

Universal knockouts

The enclosure includes multiple knockouts to support 3/4" and 1" set screw connectors for conduit integration.

Locking system and tamper switch

The enclosure is secured with a universal key lock and a tamper switch to prevent unwanted access to the access control boards.

Protections

The power circuitry is highly durable and dependable, offering protection against accidental short circuits, overload, and overvoltage.

Battery safety

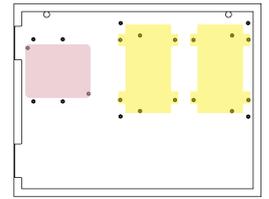
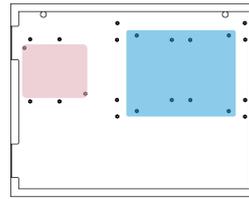
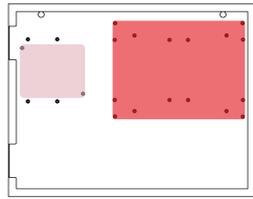
The battery charger ensures battery safety with protection against low charge and reversed polarity.

Power circuitry remote monitoring

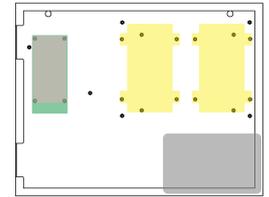
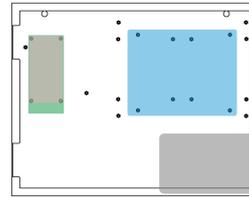
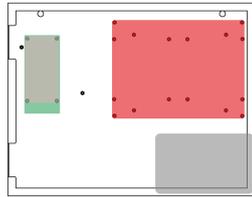
The enclosure provides outputs for AC mains cut-off and low battery alarms for remote monitoring.

EI Enclosure | Controller arrangement

EIMSP3000-v3

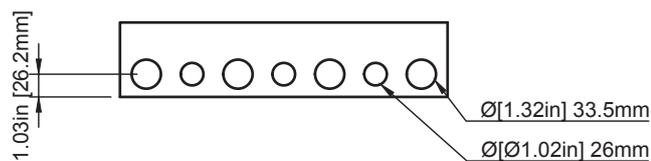
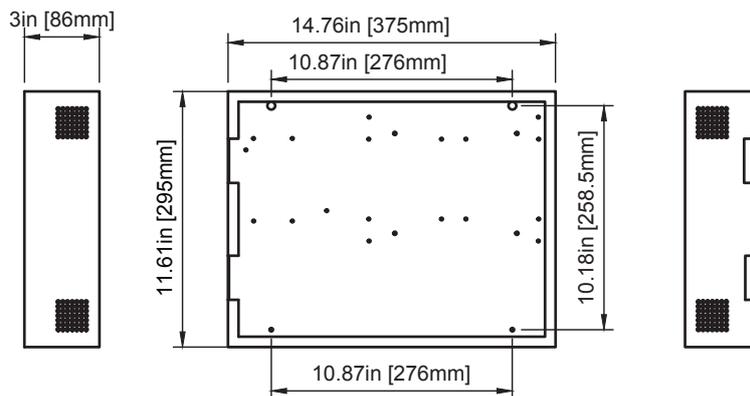
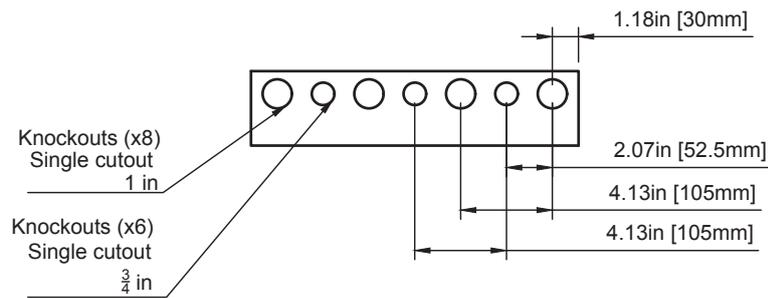


EIMSC3000-v3



- LP-1502 / LP-4502 / MR-52 / MR-16 IN / MR-16 OUT (Mercury)
- X1100 / X100 / X200 / X300 (AERO)
- Standard 7Ah Battery (L x W x H) 5.94 x 2.56 x 3.7 in (151 x 65 x 94 mm)

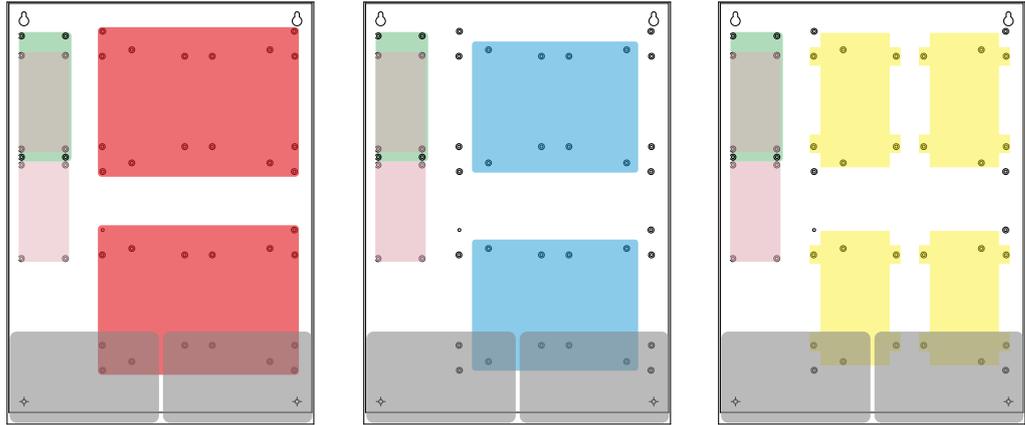
- LP-1501 / MR-62E (Mercury)
- Power Distribution Board
- Power Supply



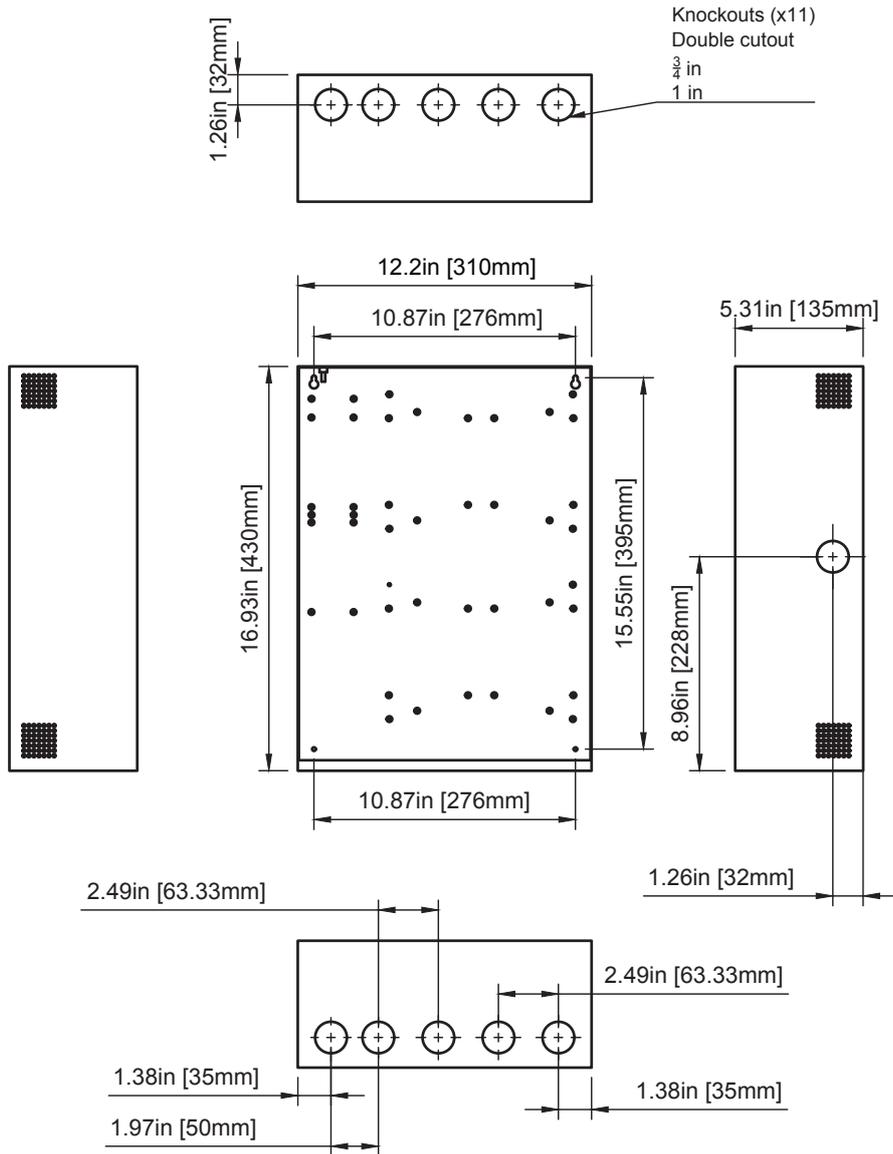
*All dimensions without door

E2 Enclosure | Controller arrangement

E2MSC6000-v3



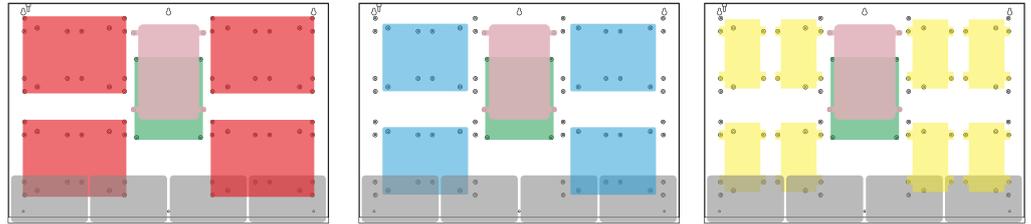
- LP-1502 / LP-4502 / MR-52 / MR-16 IN / MR-16 OUT (Mercury)
- LP-1501 / MR-62E (Mercury)
- X1100 / X100 / X200 / X300 (AERO)
- Power Distribution Board
- Standard 7Ah Battery (L x W x H) 5.94 x 2.56 x 3.7 in (151 x 65 x 94 mm)
- Power Supply



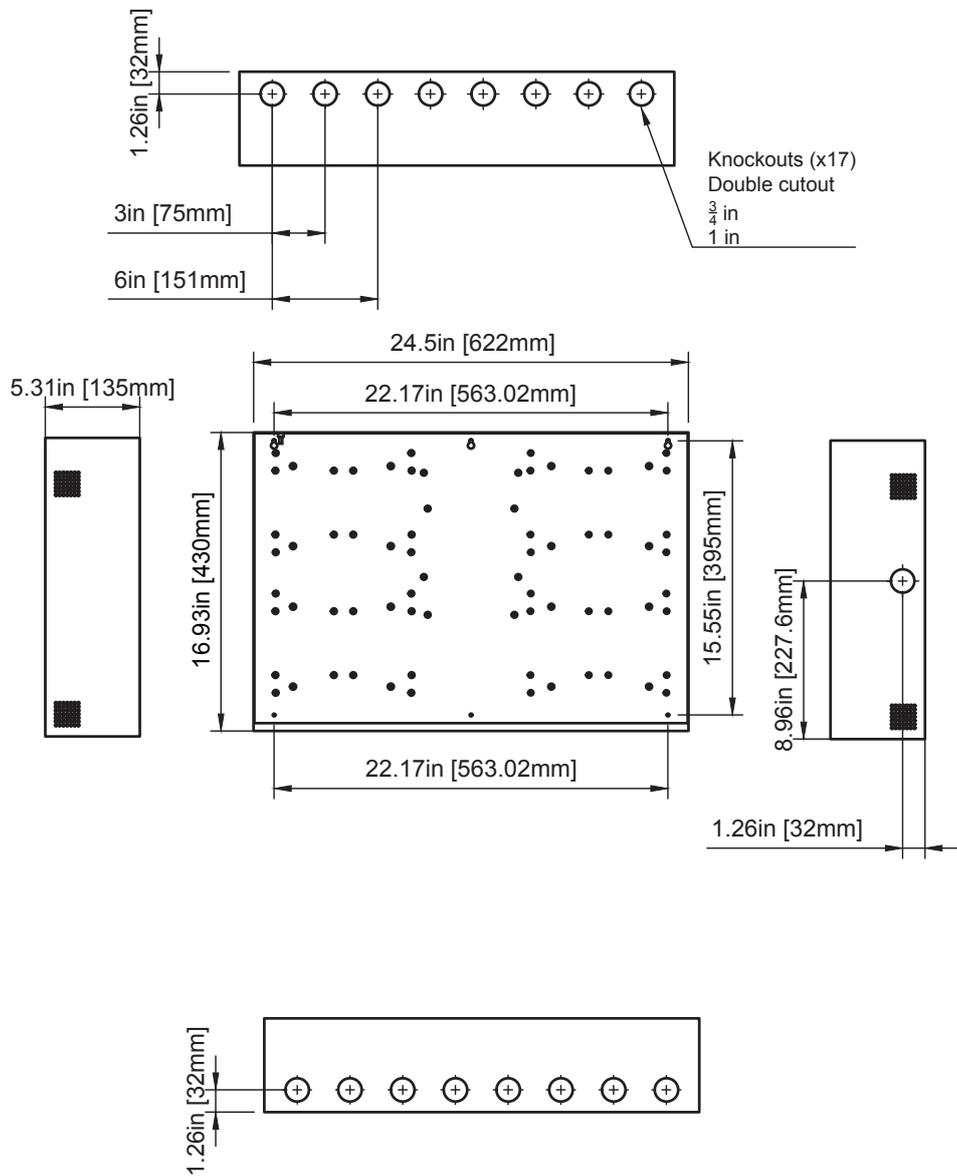
*All dimensions without door

E4 Enclosure | Controller arrangement

E4MSC16000-v3



- | | |
|--|--|
|  LP-1502 / LP-4502 / MR-52 / MR-16 IN / MR-16 OUT (Mercury) |  LP-1501 / MR-62E (Mercury) |
|  X1100 / X100 / X200 / X300 (AERO) |  Power Distribution Board |
|  Standard 7Ah Battery (L x W x H) 5.94 x 2.56 x 3.7 in (151 x 65 x 94 mm) |  Power Supply |



*All dimensions without door

Technical Specifications

FEATURES	ENCLOSURES			
	E1	E1	E2	E4
Model number	E1MSP3000-v3	E1MSC3000-v3	E2MSC6000-v3	E4MSC16000-v3
Controller support - HID Aero form factor	1		2	4
Controller support - Mercury LP1502 form factor	1		2	4
Controller support - Mercury LP1501 form factor	2		4	8
Reader support (300 mA each @12V)	4		8	16
EM lock support (600 mA)	2		4	8
Fan cutout	4 sets of vents on side faces, also compatible for mounting standard 40 x 40 x 10 fan			
Knockout	Single knockouts of 3/4 inch – 6 nos. and 1 inch – 8 nos.		Double knockouts of 3/4 inch & 1 inch – 11 nos.	Double knockouts of 3/4 inch & 1 inch – 17 nos.
Hinges	Split hinges (stainless steel)			
Cam lock	Universal key lock x 1			
Tamper switch	NA	NC type		
Input voltage/frequency	85 -264VAC; 47 ~ 63Hz	90-264VAC; 47 ~ 63Hz		90 ~ 132VAC/180 ~ 264VAC, switch selectable; 47 ~ 63Hz
Output voltage	12VDC	13.8VDC		
Output load current	Max current load @12VDC = 3A	Max current load @12VDC = 3.2A (2.8A @13.8V)	Max current load @12VDC = 3.2A (2.8A @13.8V) x 2	Max current load @12VDC = 18.9A (16.4A @13.8V)
Built-in charger (UPS mode)	NA	1.5A charging	3.0A (1.5A x 2) charging	1A charging
Fire alarm integration/fire input	NA	NO/NC type (selectable via switch)		
Battery bay	NA	Supports 1 x 12V/7Ah battery	Supports upto 2 x 12V/7Ah batteries	Supports upto 4 x 12V/7Ah batteries
External DC input for external field devices	NA	Up to 10A, 24VDC		
Safety standard (power supply)	UL62368-1, TUV BS EN/EN62368-1, BS EN/EN60335-1, BS EN/EN61558-1/-2-16,GB 4943.1, BSMI CNS15598-1, EAC TPTC 004,AS/NZS 60950.1(by CB),KC K60950-1, BIS IS13252(Part1): 2010/IEC 60950-1: 2005(NOTE 10) approved	UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved		UL62368-1, BS EN/EN62368-1, AS/NZS62368.1, EAC TP TC 004 approved
EMC emission (power supply)	Compliance to BS EN/EN55032 (CISPR32) Class B,BS EN/EN55014, BS EN/EN61000-3-2,-3, GB17625.1,GB/T 9254.1, BSMI CNS15936, EAC TPTC 020,KC KN32,KN35	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020		BS EN/EN55032 (CISPR32), EAC TP TC 020
EMC immunity (power supply)	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61000-6-2 (BS EN/EN50082-2), BS EN/EN55035, heavy industry level, EAC TPTC 020,KC KN32,KN35	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, light industry level, EAC TP TC 020		BS EN/EN61000-4-2,3,4,5,6,8
MTBF (power supply)	3201.5K hrs min. Telcordia SR-332 (Bellcore) ; 655.5Khrs min. MIL-HDBK-217F (25°C)	3681.4K hrs min. Telcordia SR-332 (Bellcore); 589.7K hrs min.MIL-HDBK-217F (25°C)		1394.9K hrs min. Telcordia SR-332 (Bellcore); 156.7K hrs min. MIL-HDBK-217F (25°C)
Working temperature (power supply)	(-30 ~ +70°C)	(-20 ~ +70°C)		(-20 ~ +60°C)
Working humidity (power supply)	20 ~ 90% RH non-condensing			20 ~ 95% RH non-condensing
Dimensions (H x W x D) mm	300 x 380 x 90		435 x 320 x 140	435 x 630 x 140
Material	Mild steel			
Sheet thickness (mm/AWG)	0.8mm (20 AWG)		1.4mm (17 AWG)	
Color/Surface finish/Powder coating type	Black: Powder coated: Structure(Coarse texture)			
Weight (without packaging)	2.57 kg (5.66 lbs)	2.70 kg (5.95 lbs)	6.22 kg (13.72 lbs)	10.50 kg (23.15 lbs)



IDCUBE

USA

IDCUBE Corporation
20, Corporate Place South, 691 S Milpitas Blvd
2nd Floor, Piscataway, Ste 217 Milpitas
New Jersey – 08854 USA CA 95035 USA

Toll-free number: +1 (833) 703-1765

UAE

IDCUBE FZE
Techno Hub 1 – Office
F 144 Dubai Silicon
Oasis Dubai, UAE

+971 4 388 7900

INDIA

IDCUBE Identification Systems
(P) Ltd.
B-19, Sector-2, Noida-201301
Uttar Pradesh, INDIA

+91 76761 10110

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