

iBreaker Series

Modular Power Distribution Unit



General specifications

Modular electronic Power Distribution Unit (e-PDU)

Magnetek's Modular electronic Power Distribution Unit (e-PDU) is a configurable distribution unit 19" x 2U based on basic electronic circuit breaker.

The standard configuration distributes -36 Vdc / -60 Vdc to 10 users.

Custom configurations are available. The electronic circuit breaker assures no bus voltage drop, remote controllability, durability, reliability and a faster response to short-circuit versus electromagnetic breakers.

Key features of the Modular electronic Power Distribution Unit include:

- Compact dimensions: 19"(482.6mm) x 3.46"(88mm) x 4.76"(121mm)
- Up to 10 power users (-48 Vdc input) in 10 A current range
- Fast response: 300 μ s short circuit-to-current limit time
- Overtemperature, overvoltage, overcurrent protection
- Latching overcurrent and short circuit protection
- "Catastrophic" fuse mounted in series with electronic switches
- Manual reset with no-lock push button switch: accidental tripping avoided
- Easy connections: with male inlet 3Pins FM3W3
- Easy to replace
- 10 outputs power connectors AMP p/n 350825-1
- One signal connector D-15Pins type and remote connector D-9Pins
- Bicolor LED's, red indicator for each tripped breaker, green indicator for E-breaker closed
- Serial RS232 bus for remote control

MODEL SUMMARY AND ORDERING CODE

Model Number	Description
3B350010000	10 breaker positions 19" rack

T e c h n i c a l d a t a s u b j e c t t o c h a n g e w i t h o u t n o t i c e

iBreaker Series Modular Power Distribution Unit

e-Distribution Unit Specifications- Standard version

Input voltage:	36 / 60 Vdc (-48 Vdc nominal)
Input current rating:	50 A line A; 50 A line B
Double separated input source line available	
Filter for each source line	
Number of electronic switches:	10
Number of electro-magnetic circuit breakers:	2
Power source / Breaking capacity:	≥5 kA
Reverse polarity protection	
Electronic switch:	10 A
Max Current rating (Imax):	10 A
Max inrush current (Ilimit):	17 A x 10 msec
Max Current after tripping (Istand-by):	<0.1 A
Voltage drop (typ) :	0.15 V
Short circuit sense time:	≤ 300 μs (followed by 10msec pre-programmed current limit interval)
Current limit delay time:	5 msec (custom time available)
Output Connector types:	AMP p/n 350825-1, series D-15Pin male, Series D-9Pin female, Amphenol FM3W3 series

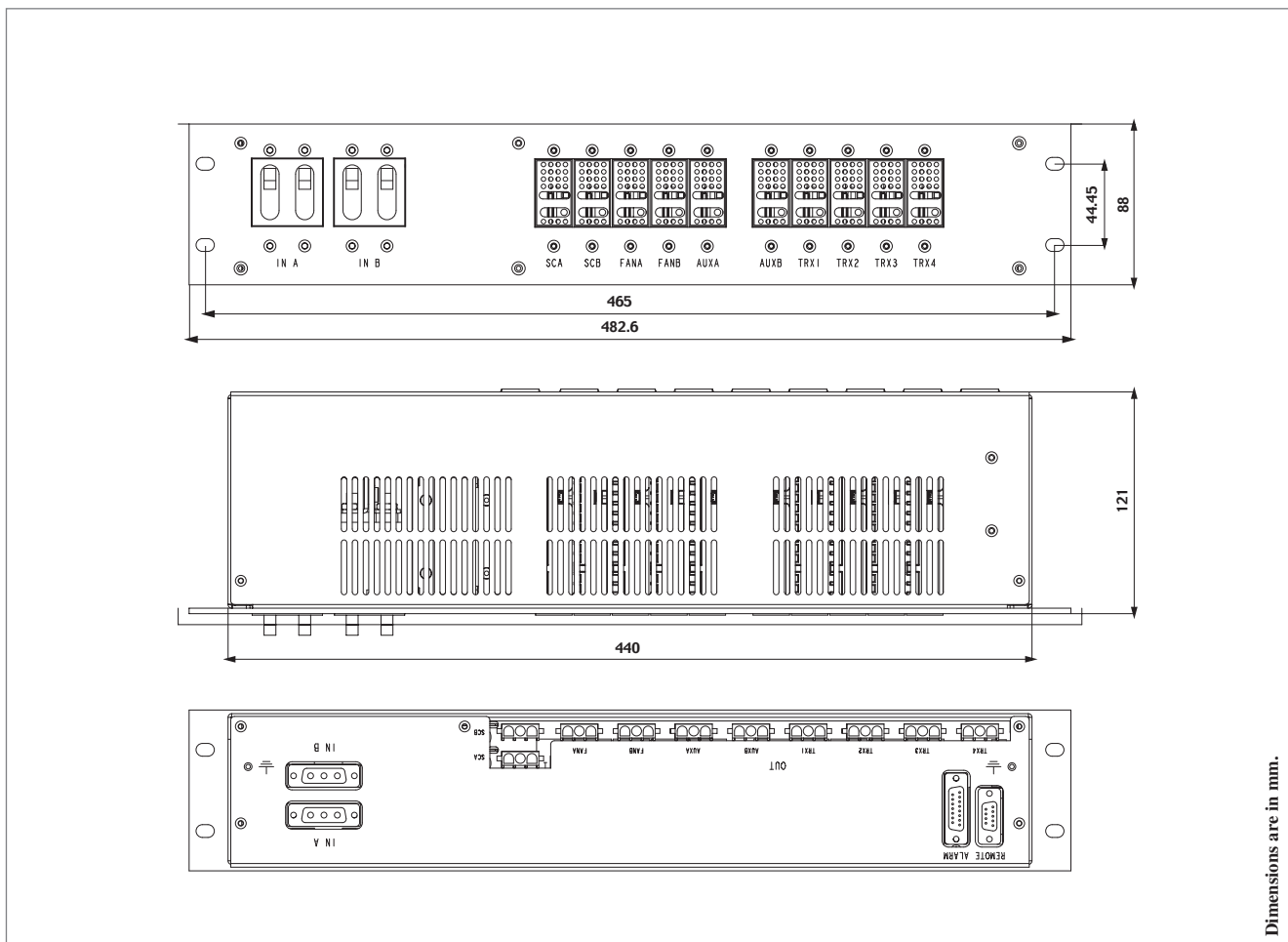
Protection: Latched overcurrent and short circuit protection
Overtemperature protection
System "catastrophic" fuse present

General

Dimensions WxHxD:	19" x 3.46" x 4.76" (482.6mm x 88mm x 121mm)
Weight :	4.5 Kg.(12.05 lbs)
Operating temperature:	-5°C to +55°C
Durability (number of on/off switch operations):	20,000 operations
MTBF:	1,000,000 hours
Cooling:	natural convection
Safety Approvals & Marks:	EMC, CE marked
Front Panel:	10bicolor LED's

- Red lit when switches are opened/tripped
- Green lit when switches are closed

Mechanical drawings



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