

## 325A Dual-Feed Circuit Breaker Panel

Power :: 8/8 Position Circuit Breaker Panel

### Overview

The Amphenol Telect 325A dual-feed circuit breaker panel provides mid-range power capacity in a 1RU space. Designed for field configuration, with a wide range of available breaker sizes, this panel is ideal for secondary distribution for today's increasing infrastructure power requirements.



Fig. 1: 300CB08 front view

This panel provides front access to circuit breakers with alarm on/off switch configuration for uninstalled breaker locations. Also featured are front LED indicators for power/breaker alarms and rear form C relay alarm connections.

Each of the 325A feeds provide power for up to eight output positions. Field replaceable circuit breakers available from 5A to 60A per position. The front face of the panel features a face plate designed to prevent unintended breaker on or off switching. The panel supports universal voltages ( $\pm 12\text{VDC}$  to  $\pm 48\text{VDC}$ ).

### Primary Benefits

- Universal voltage ( $\pm 12\text{VDC}$ ,  $\pm 24\text{VDC}$  and  $\pm 48\text{VDC}$ ) enables standardization on a single part number for multiple voltages
- Up to 60A breakers for distribution to a variety of network elements
- Staggered output terminal blocks facilitate waterfall cable management
- UL Listed, and NEBS certification (NEBS pending), to ensure industry-standard safety and functional requirements
- Form C relay contacts provide reliable alarm connections
- Integrated designation pin holder for simple power identification
- Fail alarm LEDs indicate fuse and power failures
- Clear, flame-retardant polycarbonate cover (94V-0) protects input and output power connections and wiring from damage

### Applications

- Wireless
- Central office
- Co-location
- Remote sites
- Secondary distribution

### Ordering Information

Description	Part Number
<b>325A Dual-Feed Circuit Breaker Panel</b>	
8/8 panel, vertical inputs	300CB08
Adapter kit to mount 300CB08 in a 23" rack	02117-01+W11
<b>Single-pole Breakers</b>	
5A, standard delay, UL489	149710
10A, standard delay, UL489	149711
15A, standard delay, UL489	149712
20A, standard delay, UL489	149713
25A, standard delay, UL489	149714
30A, standard delay, UL489	149715
40A, standard delay, UL489	149716
45A, standard delay, UL489	149717
50A, standard delay, UL489	149718
60A, standard delay, UL489	149719

### Specifications

Inputs:	Specifications:
Voltage range (nominal voltage)	±12VDC, ±24VDC and ±48VDC
Max. input load rating	325A @ 45°C per panel (De-rated to 200A @ 70°C)
Short circuit withstand rating	5000A
Nominal power loss at full load	Less than 45W per side @14,400W full load per side (325A x 48V); 325A @ 45°C per panel (De-rated to 200A @ 70°C)
Percentage of full power dissipation at nominal voltage	Less than 0.5%
Max. input interrupt device	125% of panel rating (for 325A rated feeds)
Input terminal studs (with nuts, flat washers and spring washers) for dual-hole compression lugs	Two pairs of 3/8"-16 studs on 1" centers per terminal [max. lug width of 1.15" (29.2 mm)]. Torque nut (using 9/16" or 15 mm socket) to 150 in/lb. (~17 N•m), max.
Input wire size	#2 AWG to 250 MCM
Grounding:	Specifications:
Earth GND terminal bolts (with washers) for dual-hole compression lug	Three sets of 1/4"-20 threaded holes on 5/8" centers. [max. lug width of .50" (12.7 mm)]. Torque bolts (using 7/16" or 12 mm socket) to 50 in/lb. (5.5 N•m), max.
Ground wire size	#14 AWG to #4 AWG
Outputs:	Specifications:
Output circuit breaker	Single-pole: 60A, max. 100A
Output load	Single-pole: 48A continuous, max. 100A
Minimum short circuit interrupt rating	5000A
Output terminal screws (with KEPS nuts and washers) for dual-hole compression lugs	16, #10-32 screws [max. lug width of .50" (12.7)]. Torque screw to 20 in/lb. (2.3 N•m), max.
Output wire size	#14 AWG to #4 AWG
Circuit breakers*	EATON and AIRPAX 1U Series
Alarms:	Specifications:
Alarm relay contacts	2A @ 30 VDC; 0.6A @ 60 VDC
Max. alarm card power rating	@12V: 18mA (0.22W) @24V: 20mA (0.48W); @48V: 30mA (1.44W)
Alarm wire size	#24 AWG, typical (#26 to #20 AWG)
Alarm terminals	Wire wrap
Dimensions:	Specifications:
300CB08 width	19" (483 mm)
300CB08 width with adapter kit	

Height:	23" (584 mm)
Depth:	1.75" (44 mm)
	13.65" (346 mm)