

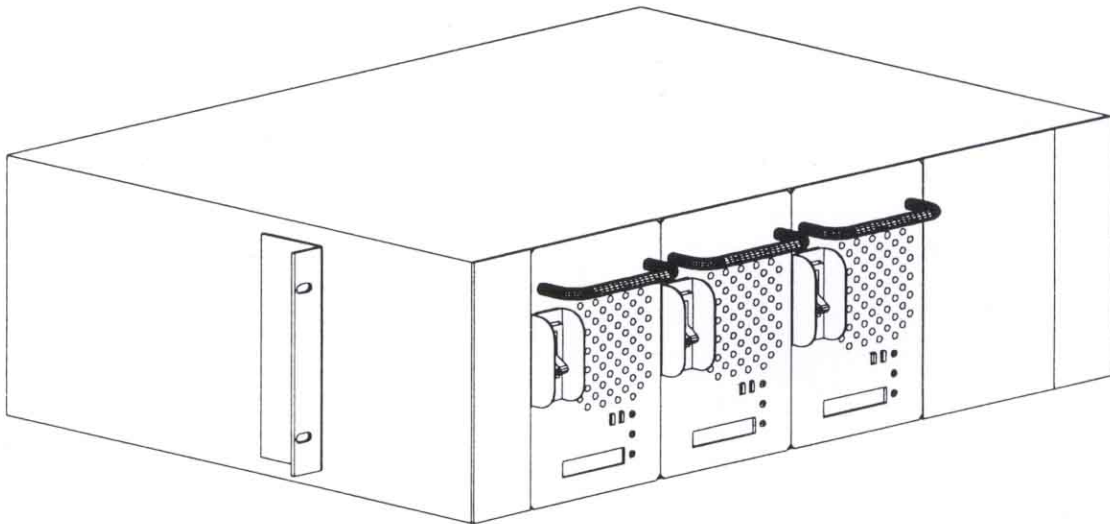
C&D TECHNOLOGIES

Power Solutions

24 TO 48 VDC, MODULAR DC-DC CONVERTERS

THE C&D TECHNOLOGIES' 10-AMPERE AND 20-AMPERE MODULAR CONVERTERS are designed for cell-site power installations requiring more 48-Vdc power in less space. The front-access 40-ampere converter shelf occupies only three spaces in a 19-inch or 23-inch rack; while the 80-ampere shelf occupies only four rack spaces in a 23-inch rack. Each can be equipped with up to four plug-in converter modules, providing a maximum current capacity of 40-ampere at

48-Vdc output (30 amperes with N+1 redundancy) and 80-ampere at 48-Vdc (60 amperes with N+1 redundancy) respectively. Each converter module features an isolated, regulated, adjustable 48-Vdc output, LED bar-graph ammeter, output-voltage test points, LED status indicators and form-C alarm contacts. Converter modules can be installed or removed without system shutdown, allowing easy site expansion and service.



20 AMPERE	10 AMPERE
80-ampere output current capacity per shelf	40-ampere output current capacity per shelf
7-inch shelf-height (4 rack spaces)	5.25-inch shelf height (3 rack spaces)
20-ampere, plug-in modules	10-ampere, plug-in modules
Front access design	
Input-output isolation	
80 to 85 percent efficiency	
Front-panel ammeter, voltage adjustment, and status indicators	

ORDERING INFORMATION

Order modular converters, as needed, by part numbers 385-3780-10 for the 10-ampere module and 385-3780-20 for the 20-ampere module.

Order modular converter shelves, as needed, by part number 385-5668-00 for 10-ampere converters and 385-5661-00 for 20-ampere converters. Each shelf can be equipped with up to four modular converters.

SPECIFICATIONS

	10 AMPERE	20 AMPERE
INPUT		
Input Voltage:	21 to 29 Vdc, 24 Vdc nominal	
Input Current: (per module)	25 Amperes DC	49 Amperes DC
Input Protection:	Circuit Breaker, reverse polarity protection	
Efficiency:	80 to 85 percent	
OUTPUT		
Output Voltage:	48 Vdc nominal, adjustable from 45.5 to 50.5 Vdc	
Output Current:	0 to 10 Adc	0 to 20 Adc
Output Protection:	Overload, short circuit and overvoltage protection	
Regulation:	±2 % vs load ±0.5 % vs line	±3 % vs load ±0.5 % vs line
INDICATORS AND ALARMS		
Input Power:	Green LED	
Alarm Condition:	Red LED	
Output Voltage:	Front-panel test points	
Output Current:	10 segment LED bar-graph ammeter	
Alarm Contacts:	Set of Form—"C" contacts for each module	
TEMPERATURE		
Operating Temperature:	0° to 50°C (32° to 122°F)	
Storage Temperature:	-40° to 95°C (-40° to 203°F)	
PHYSICAL		
Module Height:	4.4" (11 cm)	6" (15 cm)
Module Depth:	14" (36 cm)	14" (36 cm)
Module Width:	3.3" (8.4 cm)	4" (10 cm)
Module Weight:	6 lbs (2.7 kg)	11 lbs (5.0 kgs)
Shelf Height:	5.2" (13.2 cm)	7" (18 cm)
Shelf Depth:	15" (38 cm)	
Shelf Width:	17" (43.2 cm)	23" (58 cm)
Shelf Weight:	17 lbs (7.7 kg)	28 lbs (12.7 kgs)



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