



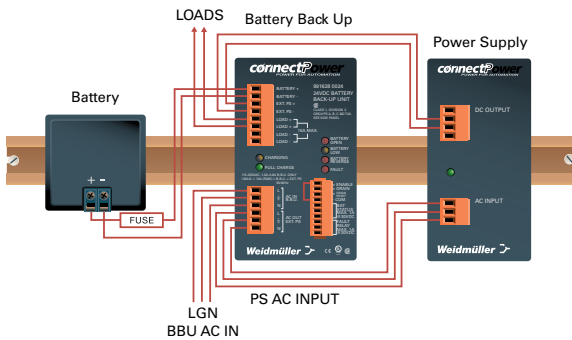
Power Delivery Solutions

Product Selection Guide

Battery Back Up Units

- DC backup system that actively manages DC battery banks
- Increases system uptime by providing DC power to load in the event of an AC power failure
- If the input fails, the load is switched seamlessly to batteries
- Continuously monitors DC output voltage of power supply
- Extensive monitoring is provided via LEDs and outputs

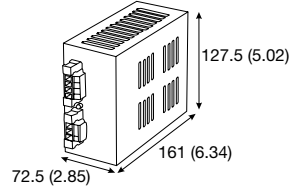
Battery Back Up Unit for DC Power Management



BBU 12

Description	Part No.
12 VDC Input	9916280012
Class 1, Div. 2	

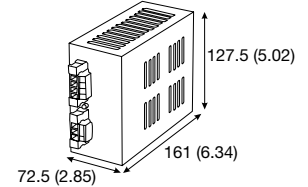
Dimensions mm (in.)



BBU 24

Description	Part No.
24 VDC input	9916280024
Class 1, Div. 2	

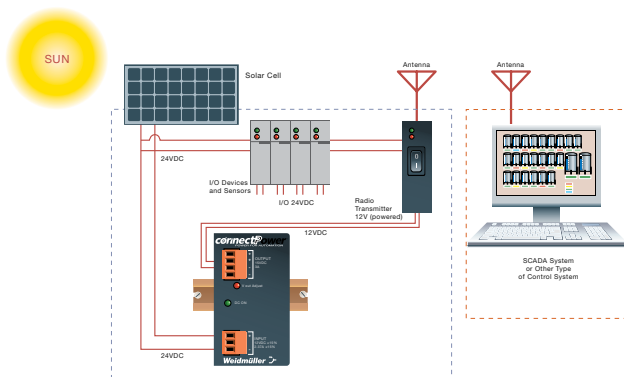
Dimensions mm (in.)



DC/DC Converters

DC-DC converter used to convert solar array output (24 VDC in this case) that is used for powering 24 VDC input/output devices, to 12 VDC used for power to lower cost radio transmitter. The transmitter panel (remote monitoring system) transmits information to SCADA system that can monitor the conditions/physical properties at the remote site, taking corrective actions, alarming, or simply providing information on conditions at remote site.

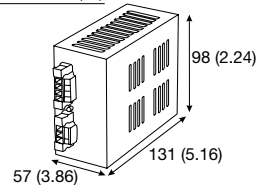
Remote Monitoring



CP-DCDC 50W

Description	Part No.
22-24 VDC @ 2 A	9919371224
15 VDC @ 3 A	9919371215
12 VDC @ 3 A	9919371212
5 VDC @ 8 A	9919371205
Class 1, Div. 2	

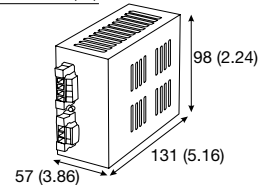
Dimensions mm (in.)



CP-DCDC 50W

Description	Part No.
22-24 VDC @ 2 A	9919372424
15 VDC @ 3 A	9919372415
12 VDC @ 3 A	9919372412
5 VDC @ 8 A	9919372405
Class 1, Div. 2	

Dimensions mm (in.)



Power Supply Comparison Table

Series/Family		Input Voltage				Output Voltage					Output Power Boost			Additional Features				
	Description	Single-Phase	Three-Phase	AC	DC	5 VDC	12 VDC	24 VDC	48 VDC	Adjustable Output	110%	125%	200%	Status Relay	Load Sharing w/o External Diode	Class 2 Approval	Class 1 Division 2 Approval	Class 1 Zone 2 Approval
WAVE	CP SNT 12W	X		85-265	120-300			X										
INSTAPOW	CP SNT 24W	X		85-265	120-300	X	X	X								X	X	X
	CP SNT 25W	X		85-264	110-370	X				X								
	CP SNT 48W	X		85-264	110-370		X	X	X	X								
ECO	CP SNT 70W	X		85-264	120-370			X		X	X			X				
	CP SNT 120W	X		88-132/176-264	250-370			X		X	X			X				
	CP SNT 250W	X		88-132/176-264	250-370			X		X	X			X				
	CP SNT 500W	X		88-132/176-264	250-370			X		X	X			X				
	CP SNT3 120W		X	340-575	450-800			X		X	X			X				
	CP SNT3 250W		X	340-575	450-800			X		X	X			X				
	CP SNT3 500W		X	340-575	450-800			X		X	X			X				
	CP SNT3 1000W		X	340-575	450-800			X		X	X			X				
PRO-M	CP M SNT 70W	X		85-264	80-370			X		X		X						
	CP M SNT 120W	X		85-264	80-370			X		X		X						
	CP M SNT 180W	X		85-264	80-370			X		X		X						
	CP M SNT 250W	X		85-264	80-370			X		X		X						
	CP M SNT 500W	X		85-264	80-370			X		X		X						
	CP M SNT 1000W	X		85-264	80-370			X		X		X						
	CP M SNT3 120W		X	320-575	450-800			X		X		X						
	CP M SNT3 250W		X	320-575	450-800			X		X		X						
	CP M SNT3 500W		X	320-575	450-800			X		X		X						
	CP M SNT3 1000W		X	320-575	450-800			X		X		X						
PRO-H	CP T SNT 70W	X		85-132/187-264	n/a		X			X		X		X			X	X
	CP T SNT 140W	X		85-132/187-264	n/a		X			X		X		X			X	X
	CP T SNT 90W	X		85-132/187-264	n/a			X		X		X		X			X	X
	CP T SNT 180W	X		85-132/187-264	n/a			X	X	X		X		X			X	X
	CP T SNT 360W	X		85-132/187-264	n/a			X	X	X		X		X			X	X
	CP T SNT 600W	X		85-132/187-264	n/a			X	X	X		X		X			X	X
Advanced	CP SNT 55W	X		85-265	120-300	X	X	X	X	X	X					X	X	X
	CP SNT 160W	X		85-138/195-250	280-370	X	X	X	X	X			X	X	X		X	X
	CP SNT 300W	X		85-265	100-200			X		X			X	X	X		X	X
	CP SNT 55W		X	306-550	450-800			X					X					
	CP SNT 160W		X	342-528	450-800			X					X	X	X			

PRO-M



- DIN-rail mount with no ventilation gap required
- Space efficient designs allow for installation in small locations
- Flexibility with a wide range of AC/DC inputs
- Single-phase and three-phase versions, from 70 W to 1000 W
- 120% power boost feature for high inrush applications
- Operating temperature range of -25°C to +70°C
- MTBF > 500,000 Hours
- cULus to UL 508 and CSA C22.2 No.107.1

SINGLE-PHASE 120/230VAC

CP M SNT 70W

Description	Part No.
24 VDC 3 A	8951330000
LxWxH: 125 x 33 x 130 mm (3.92 x 1.3 x 5.12 in)	



CP M SNT 120W

Description	Part No.
24 VDC 5 A	8951340000
LxWxH: 125 x 40 x 130 mm (3.92 x 1.58 x 5.12 in)	



ECO



- Ideal for OEMs, panel shops, and control manufacturing
- Provide a cost-effective power delivery solution for basic requirements
- Flexibility of wide range of output current from 3 Amps to 40 Amps
- Status relay outputs
- Operating temperature range of -10°C to +55°C, model dependent
- cULus to UL 508 and CSA C22.2 No.107.1

SINGLE-PHASE 120/230VAC

CP SNT 70W

Description	Part No.
24 VDC 3 A	8708660000
LxWxH: 110 x 55.5 x 125 mm (4.33 x 2.19 x 4.92 in)	



CP SNT 120W

Description	Part No.
24 VDC 5 A	8708670000
LxWxH: 110 x 65.5 x 125 mm (4.33 x 2.58 x 4.92 in)	



PRO-H



- Class 1, Division 2 approvals
- 125% power boost feature for high inrush applications
- Cold start-up at full load at -25°C
- DC-OK signal and external shut down function
- Output voltages of 12, 14 and 48VDC
- Operating temperature range of -25°C to +70°C
- MTBF > 900,000 Hours

SINGLE-PHASE 120/230VAC

CP T SNT 70W

Description	Part No.
12 VDC 6 A	1105430000
Approvals - See table at right	
LxWxH: 110 x 35 x 110 mm (4.33 x 1.38 x 4.33 in)	



CP T SNT 140W

Description	Part No.
12 VDC 12 A	1105440000
Approvals - See table at right	
LxWxH: 110 x 54 x 110 mm (4.33 x 2.12 x 4.33 in)	



Advanced



- Load sharing capability
- 200% of maximum rated output for a specified amount of time (power boost)
- Available with low residual ripple (< 10mV in some cases)
- Single-phase and three-phase versions
- Many available in 5, 12, 24, 28, and 48V versions
- Rugged housing can be panel mounted
- Operating temperature range of -20°C to +50°C, model dependent
- Available with status relay and analog outputs for monitoring

SINGLE-PHASE 120/230VAC

CP SNT 55W

Description	Part No.
24...28 VDC 2.3 A	9927480024*
48 VDC 1.04 A	9927480048
12...15 VDC 3 A	9927480012*
5 VDC 3 A	9927480005
LxWxH: 57 x 98 x 131 mm (2.24 x 3.86 x 5.16 in)	



CP SNT 160W

Description	Part No.
24...28 VDC 6.5 A	9925340024*
5 VDC 10 A	9925340005
48 VDC 3.25 A	9925340048*
9.5...15 VDC 10 A	9925340012
LxWxH: 57 x 127 x 175 mm (2.24 x 5.0 x 6.89 in)	



* Class 1, Div. 2

CP M SNT 180W

Description	Part No.
24 VDC 7.5 A	8951350000
      	
LxWxH:	150 x 50 x 130 mm (5.91 x 1.97 x 5.12 in)



CP M SNT 250W

Description	Part No.
24 VDC 10 A	8951360000
      	
LxWxH:	150 x 60 x 130 mm (5.91 x 2.37 x 5.12 in)



CP M SNT 500W

Description	Part No.
24 VDC 20 A	8951370000
      	
LxWxH:	150 x 121 x 130 mm (5.91 x 4.77 x 5.12 in)



CP M SNT 1000W

Description	Part No.
24 VDC 40 A	8951380000
      	
LxWxH:	150 x 180 x 130 mm (5.91 x 7.09 x 5.12 in)



CP SNT 250W

Description	Part No.
24 VDC 10 A	8708680000
      	
LxWxH:	110 x 125.5 x 125 mm (4.33 x 4.94 x 4.92 in)



CP SNT 500W

Description	Part No.
24 VDC 16 A-20 A	8778870000
      	
LxWxH:	110 x 227.5 x 125 mm (4.33 x 8.96 x 4.92 in)



THREE-PHASE 380/480VAC

CP SNT3 120W

Description	Part No.
24 VDC 5 A	8862730000
      	
LxWxH:	110 x 90 x 125 mm (4.33 x 3.54 x 4.92 in)



CP SNT3 250W

Description	Part No.
24 VDC 10 A	8708700000
      	
LxWxH:	110 x 125.5 x 125 mm (4.33 x 4.94 x 4.92 in)



CP T SNT 90W

Description	Part No.
24 VDC 3.8 A	1105790000
Approvals - See table at right	
LxWxH:	110 x 35 x 110 mm (4.33 x 1.38 x 4.33 in)



CP T SNT 180W

Description	Part No.
24 VDC 7.5 A	1105810000
48V 4 A	1105850000
Approvals - See table at right	
LxWxH:	110 x 54 x 110 mm (4.33 x 2.12 x 4.33 in)



CP T SNT 360W

Description	Part No.
24 VDC 15 A	1105820000
48V 7.5 A	1105860000
Approvals - See table at right	
LxWxH:	125 x 80 x 125 mm (4.92 x 3.15 x 4.92 in)



CP T SNT 600W

Description	Part No.
24 VDC 25 A	1105840000
48V 12.5 A	1105870000
Approvals - See table at right	
LxWxH:	125 x 165 x 125 mm (4.92 x 6.5 x 4.92 in)



THREE-PHASE 380/480VAC

CP SNT 300W

Description	Part No.
22...28 VDC 12.5 A	9916250024
      	
LxWxH:	240 x 104 x 155 mm (9.45 x 4.09 x 6.10 in)



CP SNT 55W

Description	Part No.
24 VDC 2.3 A	9917790324
      	
LxWxH:	60 x 108 x 168 mm (2.36 x 4.25 x 6.61 in)



CP SNT 160W

Description	Part No.
24...28 VDC 6.5 A	9925340324
      	
LxWxH:	58.4 x 138.2 x 177.8 mm (2.3 x 5.44 x 7.0 in)



INSTAPOWER



THREE-PHASE 380/480VAC

CP M SNT3 120W

Description	Part No.
24 VDC 5A	8951390000
  to UL508A,  C22.2 no.107.1	
LxWxH: 125 x 40 x 130 mm (4.92 x 1.58 x 5.12 in)	



CP M SNT3 250W

Description	Part No.
24 VDC 10A	8951400000
  to UL508A,  C22.2 no.107.1	
LxWxH: 150 x 60 x 130 mm (5.91 x 2.37 x 5.12 in)	



CP M SNT3 500W

Description	Part No.
24 VDC 20A	8951410000
  to UL508A,  C22.2 no.107.1	
LxWxH: 150 x 121 x 130 mm (5.91 x 4.77 x 5.12 in)	



CP M SNT3 1000W

Description	Part No.
24 VDC 40A	8951420000
  to UL508A,  C22.2 no.107.1	
LxWxH: 150 x 180 x 130 mm (5.91 x 7.09 x 5.12 in)	



CP SNT3 500W

Description	Part No.
24 VDC 20 A	8708710000
  to UL508A,  C22.2 no.107.1	
LxWxH: 110 x 227.5 x 125 mm (4.33 x 8.96 x 4.92 in)	



CP SNT3 1000W

Description	Part No.
24 VDC 40 A	8708730000
  to UL508A,  C22.2 no.107.1	
LxWxH: 125 x 280 x 150 mm (4.92 x 11.02 x 5.91 in)	



WAVEPower

- Slim, 22.5 mm WAVE housing
- Flexibility with a wide-range of AC and DC input
- Output voltage adjustable via potentiometer
- LED status indicator
- Option for connecting in parallel
- Operating temperature range of -20°C to +50°C

SINGLE-PHASE 120/230VAC

CP SNT 12W

Description	Part No.
24 VDC 0.5 A	9918840024
  508 Listed	
LxWxH: 90 x 18 x 112.5 mm (3.54 x 0.71 x 4.43 in)	



Approvals

 file E236157	 Listed to UL508, CSA C22.2 No. 14
 file E255651	 to ANSI/UL60950, CSA60950
 file 246286	 to C22.2 No. 107.1
 file 246286	 to CSA60950, ANSI/UL60950
 file 246286	 C1D2 to C22.2 No. 213, UL1604, Group A, B, C, D
 file 246286	 C1Z2 to CSA60079-15, UL60079-15 & ANSI/ISA 12.012.01, Ex nC IIC T4U, Aex nC IIC T4U
IEC file SI-1729 B3	 marked
LCIE file 10 ATEX 1015U	 to EN60079-0, EN60079-15 (Ex nAC IIC T4 or T5 with derating)

SINGLE-PHASE 120/230VAC

CP SNT 24W

Description	Part No.
24 VDC 1 A	9928890024
28 VDC 1 A	9928890028
15 VDC 1.5 A	9928890015
12 VDC 1.5 A	9928890012
5 VDC 2 A	9928890005
  508 Listed, 	
 Class 1 Div. 2 and Zone 2 for 9928890012 and 9928890024,  1310 (Class 2) for 9928890024	
LxWxH: 52 x 90.5 x 62.5 mm (2.05 x 3.56 x 2.46 in)	



CP SNT 25W

Description	Part No.
4...8 VDC 5 A	8754960000
  508,  60950, GS Class 2	
LxWxH: 70 x 90.5 x 62.5 mm (2.76 x 3.56 x 2.46 in)	



CP SNT 48W

Description	Part No.
9...15 VDC 4 A	8754970000
15...28 VDC 2A	8739140000
46...55 VDC 1A	8879230000
  508,  60950, GS Class 2	
LxWxH: 70 x 90.5 x 62.5 mm (2.76 x 3.56 x 2.46 in)	



- Flexibility with a wide-range of AC and DC input
- Output voltage adjustable via potentiometer
- LED status indicator
- Option for connecting in parallel
- Operating temperature range of -20°C to +50°C, model dependent
- International approvals for use world-wide

Diode and Redundancy Modules

PRO-M

ECO

PRO-H

Advanced

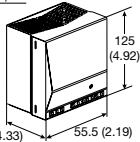


CP DM 10

Description	Part No.
10 A per input	8710620000

CE



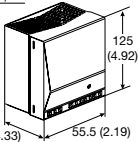
Dimensions mm (in.)

110 (4.33) 55.5 (2.19) 125 (4.92)

CP DM 20

Description	Part No.
20 A per input	8768650000

CE



Dimensions mm (in.)

110 (4.33) 55.5 (2.19) 125 (4.92)

PRO-M

ECO

PRO-H

Advanced



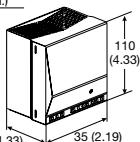
CP T RM 10*

Description	Part No.
2 x 24 VDC input 15A	1105880000

CE





Dimensions mm (in.)

110 (4.33) 35 (2.19) 110 (4.33)

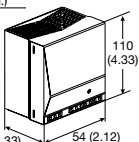
CP T RM 20*

Description	Part No.
2 x Control input 25A	1105890000

CE





Dimensions mm (in.)

110 (4.33) 54 (2.12) 110 (4.33)

** Only these diode modules carry a hazardous approval rating.*

For Larger Inputs

PRO-M

ECO

PRO-H

Advanced

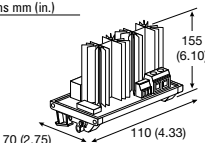


CP DM 30

Description	Part No.
CP DM 30 with voltage sensing and fault relay	9987390000
CP DM 30 without voltage sensing	9987860000



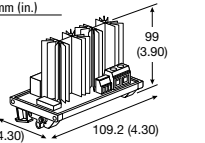


Dimensions mm (in.)

70 (2.75) 110 (4.33) 155 (6.10)

RSD 40

Description	Part No.
20 A per input (2 x 20) max.	7940005219
40 A per input (1 x 40) max.	7940005218



Dimensions mm (in.)

109.2 (4.30) 109.2 (4.30) 99 (3.90)

Parallel Connection for Increased Power Delivery

- The amount of power needed is provided by two power supplies combined in parallel

Provide Uninterrupted DC Power with Redundancy and Fault Indication (this example supplying 7A to load)

- Diode modules provide galvanic isolation between power supplies
- Use status relays for remote alarm indication

Increase DC Power Delivery to Control Systems (this example supplying 14A to load)

- The amount of power needed is provided by two power supplies combined in parallel
- Use status relays for remote alarm indication

Guarantee DC Power to Critical Loads (this example supplying 3A to critical load)

- Under normal operating conditions, the critical load is provided by both the 10A and 3A power supply
- If the larger power supply fails, the critical load will continue to be maintained by the 3A power supply
- This ensures uninterrupted power to the critical load

Note: Two power supplies in parallel must be calibrated to within ± 50 mv of each other.

Argentina	Iran	Singapore
Australia	Ireland	Slovakia
Austria	Israel	Slovenia
Azerbaijan	Italy	South Africa
Bahrain	Japan	South Korea
Belarus	Jordan	Spain
Belgium	Kazakhstan	Sweden
Bosnia-	Kuwait	Switzerland
Herzegovina	Latvia	Syria
Brazil	Lebanon	Taiwan
Bulgaria	Lithuania	Thailand
Canada	Luxembourg	Turkey
Chile	Macedonia	UAE
China	Malaysia	Ukraine
Colombia	Malta	United Kingdom
Costa Rica	Mexico	Uruguay
Croatia	Montenegro	USA
Czech Republic	Netherlands	Venezuela
Denmark	New Zealand	Vietnam
Ecuador	Norway	Yemen
Egypt	Oman	
Estonia	Paraguay	
Finland	Peru	
France	Philippines	
Germany	Poland	
Greece	Portugal	
Hong Kong	Qatar	
Hungary	Romania	
Iceland	Russia	
India	Saudi Arabia	
Indonesia	Serbia	

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