

# CliQ DIN Rail Power Supply

## 12V Output



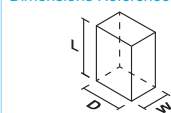
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- Power will not de-rate for the entire input voltage range
- Power Boost of 150% for 3 seconds
- Full corrosion resistant aluminium casing for 12V/60W and 12V/100W
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Multiple wire connections to terminals allowed
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2

### GENERAL SPECIFICATIONS

OUTPUT	DRP012V015W1A□	DRP012V030W1A□	DRP012V060W1AA	DRP012V100W1AA
Output Voltage	12V	12V	12V	12V
Output Voltage Range	11-14V	11-14V	11-14V	11-14V
Output Current	0-1.25A	0-2.5A	0-5.0A	0-8.33A
Output Power	15W	30W	60W	100W
Line Regulation	< 0.5% typ. (@ 85-264Vac input, 100% load)			
Load Regulation	< 1.0% typ. (@ 85-264Vac input, 0-100% load)			
PARD (20MHz)	< 100mVpp			
Hold-up Time	> 22ms @ 115Vac, > 110ms @ 230Vac			
<b>INPUT</b>				
Phase Input	Single Phase			
Input Voltage Range	85-264Vac (DC input range 120-375Vdc) <sup>1)</sup>			
Input Frequency	47-63Hz			
Input Current	< 0.37A @ 115Vac, < 0.22A @ 230Vac	< 0.70A @ 115Vac, < 0.42A @ 230Vac	< 1.35A @ 115Vac, < 0.80A @ 230Vac	< 2.50A @ 115Vac, < 1.50A @ 230Vac
Efficiency <sup>2)</sup> at 100% Load	> 84.0% @ 115Vac, > 83.0% @ 230Vac	> 85.0% @ 115Vac & 230Vac	> 86.0% @ 115Vac & 230Vac	> 85.5% @ 115Vac, > 87.5% @ 230Vac
Max Inrush Current (Cold Start)	< 30A @ 115Vac, < 65A @ 230Vac	< 40A @ 115Vac, < 80A @ 230Vac	< 50A @ 115Vac, < 100A @ 230Vac	< 100A @ 115Vac, No Damage @ 230Vac
Power Factor	Conform to EN 61000-3-2			
Leakage Current	< 1mA @ 240Vac			
<b>MECHANICAL</b>				
Case Cover / Chassis	Plastic		Aluminium	
Dimensions (L x W x D)	100 x 32 x 100.6 mm (3.94" x 1.26" x 3.96")	100 x 32 x 100.6 mm (3.94" x 1.26" x 3.96")	121 x 32 x 120 mm (4.76" x 1.26" x 4.72")	121 x 50 x 118.7 mm (4.76" x 1.97" x 4.67")
Unit Weight	0.18 kg (0.40 lb)	0.20 kg (0.44 lb)	0.33 kg (0.73 lb)	0.64 kg (1.41 lb)
Cooling System	Convection			
MTBF <sup>3)</sup>	> 500,000 hrs	> 500,000 hrs	> 500,000 hrs	> 500,000 hrs
<b>ENVIRONMENT</b>				
Operating Temperature	-20°C to +80°C			
Storage Temperature	-25°C to +85°C			
Power De-rating	> 50°C (2.5% / °C), > 70°C (4% / °C)			
Operating Humidity	5 to 95% RH (Non-Condensing)			
Operating Altitude	0 to 2,000 m (0 to 6,560 ft)			

Dimensions Reference



**Notes**

- 1) All models are certified for DC input.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115Vac, O/P: 100% load) for vertical mounting orientation.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# 24V Output



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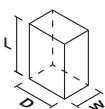
## HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- Power will not de-rate for the entire input voltage range
- Power Boost of 150% for 3 seconds (480W: 200% for 2 seconds)
- Full corrosion resistant aluminium casing
- SEMI F47 Certified for selected models
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Conformal coating on PCBAs to protect against common dust and chemical pollutants (except DRP-24V48W1AZ and DRP024V060W1AZ)
- Hazardous Locations approval to ATEX and Class I, Div 2 (except DRP-24V48W1AZ and DRP024V060W1AZ)

## GENERAL SPECIFICATIONS

OUTPUT	DRP-24V48W1AZ	DRP024V060W1AZ	DRP024V060W1AA	DRP024V120W1AA	DRP024V240W1AA	DRP024V480W1AA
Output Voltage	24V	24V	24V	24V	24V	24V
Output Voltage Range	22-26V	22-28V	22-28V	22-28V	22-28V	22-28V
Output Current	0-2.0A	0-2.5A	0-2.5A	0-5.0A	0-10.0A	0-20.0A
Output Power	48W	60W	60W	120W	240W	480W
Line Regulation	< 0.5% typ. (@ 85-264Vac input, 100% load), DRP-24V48W1AZ: < 1% typ.					
Load Regulation	< 1.0% typ. (@ 85-264Vac input, 0-100% load)					
PARD (20MHz)	< 480mVpp	< 240mVpp				
Hold-up Time	> 10ms @ 115Vac, > 60ms @ 230Vac	> 20ms @ 115Vac, > 125ms @ 230Vac		> 35ms @ 115Vac, > 70ms @ 230Vac	> 20ms @ 115Vac & 230Vac	
<b>INPUT</b>						
Phase Input	Single Phase					
Input Voltage Range	85-264Vac (DC input range 120-375Vdc) <sup>1)</sup>					
Input Frequency	47-63Hz					
Input Current	< 1.4A @ 115Vac, < 0.7A @ 230Vac	< 1.1A @ 115Vac, < 0.7A @ 230Vac		< 1.4A @ 115Vac, < 0.8A @ 230Vac	< 2.9A @ 115Vac, < 1.5A @ 230Vac	< 5.7A @ 115Vac, < 2.8A @ 230Vac
Efficiency <sup>2)</sup> at 100% Load	> 87.0% @ 115Vac & 230Vac	> 86.0% @ 115Vac, > 87.0% @ 230Vac			> 89.0% @ 115Vac, > 91.0% @ 230Vac	> 85.0% @ 115Vac, > 88.0% @ 230Vac
Max Inrush Current (Cold Start)	< 28A @ 115Vac, < 56A @ 230Vac	< 40A @ 115Vac, < 80A @ 230Vac		< 80A @ 115Vac, < 150A @ 230Vac	< 40A @ 115Vac, < 100A @ 230Vac	< 50A @ 115Vac, < 150A @ 230Vac
Power Factor	Conform to EN 61000-3-2			> 0.98 @ 115Vac, > 0.87 @ 230Vac	> 0.96 @ 115Vac, > 0.90 @ 230Vac	> 0.97 @ 115Vac, > 0.95 @ 230Vac
Leakage Current	< 1mA @ 240Vac					< 1.25mA @ 240Vac
<b>MECHANICAL</b>						
Case Cover / Chassis	Plastic			Aluminium		
Dimensions (L x W x D)	100 x 32 x 100.6 mm (3.94" x 1.26" x 3.96")	120.6 x 32 x 113 mm (4.75" x 1.26" x 4.45")	121 x 32 x 120 mm (4.76" x 1.26" x 4.72")	121 x 50 x 118.7 mm (4.76" x 1.97" x 4.67")	121 x 85 x 118.5 mm (4.76" x 3.35" x 4.67")	121 x 160 x 118.5 mm (4.76" x 6.30" x 4.67")
Unit Weight	0.22 kg (0.49 lb)	0.33 kg (0.73 lb)	0.37 kg (0.82 lb)	0.54 kg (1.19 lb)	1.04 kg (2.29 lb)	1.80 kg (3.97 lb)
Cooling System	Convection					
MTBF <sup>3)</sup>	> 500,000 hrs	> 500,000 hrs	> 500,000 hrs	> 500,000 hrs	> 300,000 hrs	> 300,000 hrs
<b>ENVIRONMENT</b>						
Operating Temperature	-20°C to +70°C		-20°C to +80°C			
Storage Temperature	-25°C to +85°C					
Power De-rating	< -10°C to -20°C (1% / °C), < 0°C to -10°C (2% / °C), > 50°C (2.5% / °C)	< -20°C to -10°C: 80% Load, < 0°C (2% / °C), > 50°C (2.5% / °C)	< 0°C to -20°C (1% / °C), > 50°C (2.5% / °C)	> 50°C (2.5% / °C)		> 50°C (2.5% / °C), > 70°C (4% / °C)
Operating Humidity	5 to 95% RH (Non-Condensing)					
Operating Altitude	0 to 2,000 m (0 to 6,560 ft)					

### Dimensions Reference



### Notes

- 1) All models are certified for DC input except DRP-24V48W1AZ which still fulfills the test conditions of this range. DC input safety approval can be obtained upon request.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115Vac, O/P: 100% load) for vertical mounting orientation.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# CliQ II DIN Rail Power Supply

## 24V Output



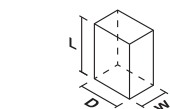
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- Power will not de-rate for the entire input voltage range
- High Efficiency > 90.0% @ 230Vac
- Power Boost of 150% for 5 seconds (480W: 200% for 2 seconds)
- Full corrosion resistant aluminium casing
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Extreme low temperature cold start at -40°C
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2

### GENERAL SPECIFICATIONS

OUTPUT	DRP024V060W1B□	DRP024V120W1B□	DRP024V240W1B□	DRP024V480W1B□
Output Voltage	24V	24V	24V	24V
Output Voltage Range	24-28V	24-28V	24-28V	24-28V
Output Current	0-2.5A	0-5.0A	0-10.0A	0-20.0A
Output Power	60W	120W	240W	480W
Line Regulation	< 0.5% typ. (@ 85-264Vac input, 100% load)			
Load Regulation	< 1.0% typ. (@ 85-264Vac input, 0-100% load)			
PARD (20MHz)	< 150mVpp			
Hold-up Time	> 20ms @ 115Vac, > 125ms @ 230Vac	> 20ms @ 115Vac, > 115ms @ 230Vac		> 20ms @ 115Vac & 230Vac
<b>INPUT</b>				
Phase Input	Single Phase			
Input Voltage Range	85-264Vac (DC input range 120-375Vdc) <sup>1)</sup>			
Input Frequency	47-63Hz			
Input Current	< 1.4A @ 115Vac, < 0.8A @ 230Vac	< 2.2A @ 115Vac, < 1.1A @ 230Vac	< 2.5A @ 115Vac, < 1.3A @ 230Vac	< 5.0A @ 115Vac, < 3.0A @ 230Vac
Efficiency <sup>2)</sup> at 100% Load	> 90.0% @ 115Vac & 230Vac	> 89.0% @ 115Vac, > 90.0% @ 230Vac	> 90.0% @ 115Vac, > 92.0% @ 230Vac	> 91.0% @ 115Vac, > 92.0% @ 230Vac
Max Inrush Current (Cold Start)	< 20A @ 115Vac, < 35A @ 230Vac	< 35A @ 115Vac & 230Vac		
Power Factor	Conform to EN 61000-3-2		> 0.96 @ 115Vac, > 0.90 @ 230Vac	> 0.96 @ 115Vac, > 0.95 @ 230Vac
Leakage Current	< 1mA @ 240Vac			< 3mA @ 240Vac
<b>MECHANICAL</b>				
Case Cover / Chassis	Aluminium			
Dimensions (L x W x D)	121 x 32 x 125 mm (4.76" x 1.26" x 4.92")	121 x 50 x 123.1 mm (4.76" x 1.97" x 4.85")	121 x 85 x 124.1 mm (4.76" x 3.35" x 4.89")	121 x 144 x 118.6 mm (4.76" x 5.67" x 4.67")
Unit Weight	0.37 kg (0.82 lb)	0.72 kg (1.59 lb)	1.10 kg (2.43 lb)	1.37 kg (3.02 lb)
Cooling System	Convection			
MTBF <sup>3)</sup>	> 800,000 hrs	> 800,000 hrs	> 500,000 hrs	> 500,000 hrs
<b>ENVIRONMENT</b>				
Operating Temperature	-25°C to +80°C			-25°C to +75°C
Storage Temperature	-40°C to +85°C			
Power De-rating	> 50°C (2.5% / °C)			> 50°C (2.5% / °C), > 70°C (5% / °C)
Operating Humidity	5 to 95% RH (Non-Condensing)			
Operating Altitude	0 to 2,500 m (0 to 8,200 ft)			

#### Dimensions Reference



#### Notes

- 1) All models fulfill the test conditions for this range. DC input safety approval can be obtained upon request. While DRP024V060W1B□ is also certified for DC input.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115Vac, O/P: 100% load) for vertical mounting orientation.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# 24V Output NEC Class 2



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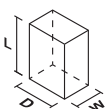
## HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- Power will not de-rate for the entire input voltage range
- UL 1310 safety approval
- NEC Class 2 and Limited Power Source (LPS) approvals
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2 (DRP024V060W1NY)

## GENERAL SPECIFICATIONS

OUTPUT	DRP024V060W1N□	DRP-24V100W1NN
Output Voltage	24V	24V
Output Voltage Range	24-28V	22-24V
Output Current	0-2.5A	0-3.8A
Output Power	60W	91.2W
Line Regulation	< 0.5% typ. (@ 85-264Vac input, 100% load)	
Load Regulation	< 1.0% typ. (@ 85-264Vac input, 0-100% load); DRP-24V100W1NN: < 1.0% typ. (-25°C to +25°C), < 2.0% typ. (+25°C to +50°C)	
PARD (20MHz)	< 240mVpp	< 150mVpp
Hold-up Time	> 20ms @ 115Vac, > 125ms @ 230Vac	> 20ms @ 115Vac, > 30ms @ 230Vac
INPUT		
Phase Input	Single Phase	
Input Voltage Range	85-264Vac (DC input range 120-375Vdc) <sup>1)</sup>	
Input Frequency	47-63Hz	
Input Current	< 1.50A @ 115Vac, < 0.80A @ 230Vac	< 1.00A @ 115Vac, < 0.53A @ 230Vac
Efficiency <sup>2)</sup> at 100% Load	> 88.0% @ 115Vac, > 89.0% @ 230Vac	
Max Inrush Current (Cold Start)	< 40A @ 115Vac, < 80A @ 230Vac	< 30A @ 115Vac, < 60A @ 230Vac
Power Factor	Conform to EN 61000-3-2	> 0.99 @ 115Vac, > 0.94 @ 230Vac
Leakage Current	< 0.5mA @ 240Vac	
MECHANICAL		
Case Cover / Chassis	Plastic	Aluminium
Dimensions (L x W x D)	120.6 x 32 x 119.3 mm (4.75" x 1.26" x 4.70")	124 x 40 x 124 mm (4.88" x 1.57" x 4.88")
Unit Weight	0.33 kg (0.73 lb)	0.60 kg (1.32 lb)
Cooling System	Convection	
MTBF <sup>3)</sup>	> 800,000 hrs	
ENVIRONMENT		
Operating Temperature	-25°C to +80°C	
Storage Temperature	-40°C to +85°C	
Power De-rating	> 50°C (2.5% / °C), > 70°C (4% / °C)	
Operating Humidity	5 to 95% RH (Non-Condensing)	
Operating Altitude	0 to 2,500 m (0 to 8,200 ft)	

### Dimensions Reference



### Notes

- 1) All models fulfill the test conditions for DC input. DC input safety approval can be obtained upon request.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115Vac, O/P: 100% load) for vertical mounting orientation.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# CliQ II DIN Rail Power Supply

## 24V Output



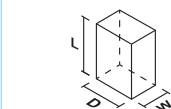
### HIGHLIGHTS & FEATURES

- Designed for single phase input 180-305Vac (for L-N) or 2 of 3-Phase system 2 x 180-550Vac (for L-L) or 254-780Vdc
- Compact and corrosion resistant aluminium casing
- High Efficiency > 90.0%
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Wide operating temperature range from -30°C to +70°C
- Built-in DC OK contact
- Conformal coating on PCBAs to protect against common dust and chemical pollutants

### GENERAL SPECIFICATIONS

OUTPUT	DRP-24V120W2BN	DRP-24V240W2BN
Output Voltage	24V	24V
Output Voltage Range	24-28V	24-28V
Output Current	0-5.0A	0-10.0A
Output Power	120W	240W
Line Regulation	< 0.5% typ. (@ 200-550Vac input, 100% load)	
Load Regulation	< 1.0% typ. (@ 200-550Vac input, 0-100% load)	
PARD (20MHz)	< 150mVpp	
Hold-up Time	> 10ms @ 2 x 230Vac, > 50ms @ 2 x 400Vac	> 18ms @ 2 x 230Vac, > 30ms @ 2 x 400Vac
<b>INPUT</b>		
Phase Input	Single Phase or Two Phase	
Input Voltage Range	2 x 180-550Vac or 180-305Vac (Single Phase) (DC input range 254-780Vdc) <sup>1)</sup>	
Input Frequency	47-63Hz	
Input Current	< 1.20A @ 2 x 230Vac, < 0.65A @ 2 x 400Vac	< 2.00A @ 2 x 230Vac, < 1.00A @ 2 x 400Vac
Efficiency <sup>2)</sup> at 100% Load	> 90.0% @ 2 x 400Vac	
Max Inrush Current (Cold Start)	< 50A @ 2 x 200Vac & 500Vac	
Power Factor	Conform to EN 61000-3-2	> 0.84 @ 2 x 230Vac & 400Vac
Leakage Current	< 3.5mA @ 500Vac	
<b>MECHANICAL</b>		
Case Cover / Chassis	Aluminium	
Dimensions (L x W x D)	124 x 40 x 117 mm (4.88" x 1.57" x 4.61")	124 x 60 x 117 mm (4.88" x 2.36" x 4.61")
Unit Weight	0.62 kg (1.37 lb)	0.81 kg (1.79 lb)
Cooling System	Convection	
MTBF <sup>3)</sup>	> 800,000 hrs	> 500,000 hrs
<b>ENVIRONMENT</b>		
Operating Temperature	-30°C to +70°C	
Storage Temperature	-40°C to +85°C	
Power De-rating	> 60°C (4% / °C)	> 50°C (2.25% / °C)
Operating Humidity	5 to 95% RH (Non-Condensing)	
Operating Altitude	Industrial Application: 0 to 2,000 m (0 to 6,560 ft); ITE Application: 0 to 2,500 m (0 to 8,200 ft)	

#### Dimensions Reference



#### Notes

- 1) All models are certified for DC input.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115Vac, O/P: 100% load) for vertical mounting orientation.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.



# 24V Output



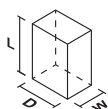
## HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- Power will not de-rate for the entire input voltage range
- Power Boost of 150% for 5 seconds (480W: 200% for 2 seconds)
- Full corrosion resistant aluminium casing
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Extreme low temperature cold start at -40°C
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2 (except DRP024V960W3BN)

## GENERAL SPECIFICATIONS

OUTPUT	DRP024V060W3B□	DRP024V120W3B□	DRP024V240W3B□	DRP024V480W3B□	DRP024V960W3BN
Output Voltage	24V	24V	24V	24V	24V
Output Voltage Range	24-28V	24-28V	24-28V	24-28V	24-28V
Output Current	0-2.5A	0-5.0A	0-10.0A	0-20.0A	0-40.0A
Output Power	60W	120W	240W	480W	960W
Line Regulation	< 0.5% typ. (@ 320-600Vac input, 100% load)				
Load Regulation	< 1.0% typ. (@ 320-600Vac input, 0-100% load)				
PARD (20MHz)	< 150mVpp				< 240mVpp
Hold-up Time	> 20ms @ 3 × 400Vac, > 40ms @ 3 × 500Vac			> 20ms @ 3 × 400Vac & 500Vac	
<b>INPUT</b>					
Phase Input	Two Phase or Three Phase				
Input Voltage Range (Does not exceed 600Vac)	3 × 320-600Vac or 2 × 360-600Vac (DC input range 450-800Vdc) <sup>1)</sup>				3 × 320-600Vac or 2 × 380-600Vac (DC input range 450-800Vdc) <sup>1)</sup>
Input Frequency	47-63Hz				
Input Current	< 0.30A/Phase @ 400Vac, < 0.25A/Phase @ 500Vac	< 0.50A/Phase @ 400Vac, < 0.40A/Phase @ 500Vac	< 0.75A/Phase @ 400Vac, < 0.65A/Phase @ 500Vac	< 1.00A/Phase @ 400Vac, < 0.75A/Phase @ 500Vac	< 1.70A/Phase @ 400Vac, < 1.40A/Phase @ 500Vac
Efficiency <sup>2)</sup> at 100% Load	> 86.0% @ 3 × 400Vac & 500Vac	> 88.0% @ 3 × 400Vac & 500Vac	> 92.0% @ 3 × 400Vac & 500Vac	> 91.0% @ 3 × 400Vac & 500Vac	> 92.0% @ 3 × 400Vac & 500Vac
Max Inrush Current (Cold Start) <sup>3)</sup>	< 30A @ 3 × 400Vac & 500Vac	< 30A @ 3 × 400Vac & 500Vac	< 40A @ 3 × 400Vac & 500Vac	< 50A @ 3 × 400Vac & 500Vac	< 60A @ 3 × 400Vac & 500Vac
Power Factor	Conform to EN 61000-3-2			> 0.95 @ 3 × 400Vac, > 0.94 @ 3 × 500Vac	
Leakage Current	< 3.5mA @ 500Vac				
<b>MECHANICAL</b>					
Case Cover / Chassis	Aluminium				
Dimensions (L × W × D)	121 × 50 × 117.3 mm (4.76" × 1.97" × 4.62")	121 × 50 × 117.3 mm (4.76" × 1.97" × 4.62")	121 × 70 × 117.3 mm (4.76" × 2.76" × 4.62")	121 × 140 × 117.3 mm (4.76" × 5.51" × 4.62")	121 × 255 × 117.3 mm (4.76" × 10.0" × 4.62")
Unit Weight	0.66 kg (1.46 lb)	0.66 kg (1.46 lb)	0.89 kg (1.96 lb)	1.35 kg (2.98 lb)	2.60 kg (5.73 lb)
Cooling System	Convection				
MTBF <sup>4)</sup>	> 500,000 hrs	> 500,000 hrs	> 500,000 hrs	> 500,000 hrs	> 300,000 hrs
<b>ENVIRONMENT</b>					
Operating Temperature	-25°C to +80°C				-25°C to +65°C
Storage Temperature	-40°C to +85°C				
Power De-rating	> 50°C (2.5% / °C), > 70°C (5% / °C)				> 50°C (2.5% / °C)
Operating Humidity	5 to 95% RH (Non-Condensing)				
Operating Altitude	Industrial Application: 0 to 2,000 m (0 to 6,560 ft); ITE Application: 0 to 2,500 m (0 to 8,200 ft)				

### Dimensions Reference



### Notes

- 1) All models fulfill the test conditions for this range. DC input safety approval can be obtained upon request. While DRP024V480W3B□ and DRP024V960W3BN are also certified for DC input.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) AC Source capability up to 3kVA.
- 4) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 400Vac, O/P: 100% load) for vertical mounting orientation.
- 5) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# CliQ II DIN Rail Power Supply

## 48V Output



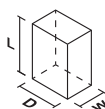
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- Power will not de-rate for the entire input voltage range
- High Efficiency > 91.0% @ 230Vac
- Power Boost of 150% for 5 seconds
- Full corrosion resistant aluminium casing
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Extreme low temperature cold start at -40°C
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2

### GENERAL SPECIFICATIONS

OUTPUT	DRP048V060W1B□	DRP048V120W1B□	DRP048V240W1B□	DRP048V480W1B□
Output Voltage	48V	48V	48V	48V
Output Voltage Range	48-56V	48-56V	48-56V	48-56V
Output Current	0-1.25A	0-2.5A	0-5.0A	0-10.0A
Output Power	60W	120W	240W	480W
Line Regulation	< 0.5% typ. (@ 85-264Vac input, 100% load)			
Load Regulation	< 1.0% typ. (@ 85-264Vac input, 0-100% load)			
PARD (20MHz)	< 200mVpp			
Hold-up Time	> 20ms @ 115Vac, > 125ms @ 230Vac	> 20ms @ 115Vac, > 50ms @ 230Vac		> 20ms @ 115Vac & 230Vac
<b>INPUT</b>				
Phase Input	Single Phase			
Input Voltage Range	85-264Vac (DC input range 120-375Vdc) <sup>1)</sup>			
Input Frequency	47-63Hz			
Input Current	< 1.4A @ 115Vac, < 0.8A @ 230Vac	< 2.2A @ 115Vac, < 1.1A @ 230Vac	< 2.5A @ 115Vac, < 1.3A @ 230Vac	< 5.0A @ 115Vac, < 3.0A @ 230Vac
Efficiency <sup>2)</sup> at 100% Load	> 91.0% @ 115Vac, > 92.0% @ 230Vac	> 90.0% @ 115Vac, > 91.0% @ 230Vac	> 90.0% @ 115Vac, > 92.0% @ 230Vac	> 91.0% @ 115Vac, > 93.0% @ 230Vac
Max Inrush Current (Cold Start)	< 20A @ 115Vac, < 35A @ 230Vac	< 35A @ 115Vac & 230Vac		
Power Factor	Conform to EN 61000-3-2	> 0.99 @ 115Vac, > 0.93 @ 230Vac	> 0.96 @ 115Vac, > 0.90 @ 230Vac	
Leakage Current	< 1mA @ 240Vac			< 3mA @ 240Vac
<b>MECHANICAL</b>				
Case Cover / Chassis	Aluminium			
Dimensions (L x W x D)	121 x 32 x 125 mm (4.76" x 1.26" x 4.92")	121 x 50 x 123.1 mm (4.76" x 1.97" x 4.85")	121 x 85 x 124.1 mm (4.76" x 3.35" x 4.86")	121 x 144 x 118.6 mm (4.76" x 5.67" x 4.67")
Unit Weight	0.38 kg (0.84 lb)	0.72 kg (1.59 lb)	0.96 kg (2.12 lb)	1.37 kg (3.02 lb)
Cooling System	Convection			
MTBF <sup>3)</sup>	> 800,000 hrs	> 800,000 hrs	> 500,000 hrs	> 500,000 hrs
<b>ENVIRONMENT</b>				
Operating Temperature	-25°C to +80°C			-25°C to +75°C
Storage Temperature	-40°C to +85°C			
Power De-rating	> 50°C (2.5% / °C)			> 50°C (2.5% / °C), > 70°C (5% / °C)
Operating Humidity	5 to 95% RH (Non-Condensing)			
Operating Altitude	0 to 2,500 m (0 to 8,200 ft)			

#### Dimensions Reference



#### Notes

- 1) All models fulfill the test conditions for DC input. DC input safety approval can be obtained upon request.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115Vac, O/P: 100% load) for vertical mounting orientation.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# CliQ III DIN Rail Power Supply

## 24V Output



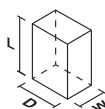
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- Built-in constant current circuit for charging application
- High efficiency of up to 94% at 230Vac
- Power Boost of 150% for 5 seconds
- SEMI F47 compliance at 120Vac
- Extreme low temperature cold start at -40°C
- Built-in DC OK Contact and LED indicator for DC OK
- Conformal coating on PCBA to protect against common dust and chemical pollutants

### GENERAL SPECIFICATIONS

	NEW	NEW	NEW
OUTPUT	DRP-24V120W1C□N	DRP-24V240W1C□N	DRP-24V480W1C□N
Output Voltage	24V	24V	24V
Output Voltage Range	24-28V	24-28V	24-28V
Output Current	0-5.0A	0-10.0A	0-20.0A
Output Power	120W	240W	480W
Line Regulation	< 0.5% (@ 88-264Vac input, 100% load)		
Load Regulation	< 1.0% (@ 88-264Vac input, 0-100% load)		
PARD (20MHz)	< 100mVpp		
Hold-up Time	> 20ms @115Vac & 230Vac		> 16ms @115Vac & 230Vac
INPUT			
Phase Input	Single Phase		
Input Voltage Range	DRP-24V□W1CAN: 88-264Vac DRP-24V□W1CBN: 88-264Vac (DC input range 88-375Vdc) <sup>1)</sup>		
Input Frequency	47-63Hz		
Input Current	< 1.4A @ 115Vac, < 0.7A @ 230Vac	< 2.6A @ 115Vac, < 1.3A @ 230Vac	< 5.0A @ 115Vac, < 2.5A @ 230Vac
Efficiency <sup>2)</sup> at 100% Load	> 89.9% @115Vac, > 91.4% @ 230Vac	> 92.7% @115Vac, > 94.4% @ 230Vac	> 92.5% @115Vac, > 94.0% @ 230Vac
Max Inrush Current (Cold Start)	< 35A @ 115Vac, < 75A @ 230Vac	< 33A @ 115Vac, < 65A @ 230Vac	< 40A @ 115Vac, < 80A @ 230Vac
Power Factor	> 0.96 @ 115Vac, > 0.93 @ 230Vac	> 0.99 @ 115Vac, > 0.93 @ 230Vac	> 0.99 @ 115Vac, > 0.95 @ 230Vac
Leakage Current	< 1.2mA @240Vac		
MECHANICAL			
Case Cover / Chassis	Aluminium		
Dimensions (L x W x D)	124 x 40 x 117 mm (4.88" x 1.57" x 4.60")	124 x 60 x 117 mm (4.88" x 2.36" x 4.60")	124 x 82 x 127 mm (4.88" x 3.23" x 5.00")
Unit Weight	0.58 kg (1.28 lb)	0.84 kg (1.85 lb)	1.20 kg (2.65 lb)
Cooling System	Convection		
MTBF <sup>3)</sup>	> 1,411,300 hrs	> 1,366,200 hrs	> 1,041,600 hrs
ENVIRONMENT			
Operating Temperature	-25°C to +70°C		
Storage Temperature	-40°C to +85°C		
Power De-rating	> 60°C (2.5% / °C)		AC input: > 60°C (2.5% / °C), DC input: > 50°C (2.5% / °C)
Operating Humidity	5 to 95% RH (Non-Condensing)		
Operating Altitude	0 to 5,000 m (0 to 16,400 ft)		

Dimensions Reference



Notes

- 1) All models are certified for DC input.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115Vac, O/P: 100% load) for vertical mounting orientation.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.