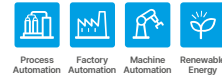


cliQ" (24 V)



- Power will not de-rate for the entire input voltage range
- High Efficiency > 90.0% @ 230 V_{AC}
- Power Boost of 150% up to 5 s (480 W: 200% for 2 s)
- Full corrosion resistant aluminium casing
- Extreme low temperature cold start at -40°C
- Conformal coating on PCBAs to protect against common dust and pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2

Applications



Output		DRP024V060W1B□	DRP024V120W1B□	DRP024V240W1B□	DRP024V480W1B□
Output Voltage		24 V	24 V	24 V	24 V
Output Voltage Range		24-28 V	24-28 V	24-28 V	24-28 V
Output Current		0-2.5 A	0-5.0 A	0-10.0 A	0-20.0 A
Output Power		60 W	120 W	240 W	480 W
PARD (20 MHz)		< 150 mVpp			
Hold-up Time	115 V _{AC}	> 20 ms		> 20 ms	
	230 V _{AC}	> 115 ms			
Input					
Phase Input		Single Phase			
Input Voltage Range		85-264 V _{AC} (DC input range 120-375 V _{DC}) ¹⁾			
Input Frequency		47-63 Hz			
Input Current	115 V _{AC}	< 1.4 A	< 2.2 A	< 2.5 A	< 5.0 A
	230 V _{AC}	< 0.8 A	< 1.1 A	< 1.3 A	< 3.0 A
Efficiency ²⁾ at 100% Load	115 V _{AC}	> 90.0%	> 89.0%	> 90.0%	> 91.0%
	230 V _{AC}	> 90.0%	> 90.0%	> 92.0%	
Max Inrush Current (Cold Start)	115 V _{AC}	< 20 A	< 35 A		
	230 V _{AC}	< 35 A			
Power Factor	115 V _{AC}	Conform to EN 61000-3-2		> 0.96	> 0.96
	230 V _{AC}			> 0.90	> 0.95
Leakage Current	240 V _{AC}	< 1 mA			< 3 mA
Mechanical					
Case Cover / Chassis		Aluminium			
Dimensions (H × W × D)	mm	121 × 32 × 125	121 × 50 × 123.1	121 × 85 × 124.1	121 × 144 × 118.6
	inch	4.76 × 1.26 × 4.92	4.76 × 1.97 × 4.85	4.76 × 3.35 × 4.89	4.76 × 5.67 × 4.67
Unit Weight	kg	0.37	0.72	1.10	1.37
	lb	0.82	1.59	2.43	3.02
Cooling System		Convection			
MTBF ³⁾		> 800,000 hrs			> 500,000 hrs
Environment					
Operating Temperature ⁴⁾		-25°C to +80°C			-25°C to +75°C
Storage Temperature		-40°C to +85°C			
Operating Humidity		5 to 95% RH (Non-Condensing)			
Operating Altitude		0 to 2,500 m (0 to 8,200 ft)			

Dimensions Reference



Notes

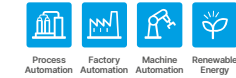
- 1) All models fulfill the test conditions for this range. DC input safety approval can be obtained upon request. While DRP024V060W1B□ is also certified for DC input.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115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

cliQ" (24 V)



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

Applications



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

Dimensions Reference



Notes

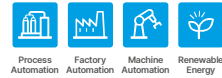
- 1) All models fulfill the test conditions for this range. DC input safety approval can be obtained upon request.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115 V_{AC}, O/P: 100% load) for vertical mounting orientation.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

cliQ" (24 V)



- Designed for single phase input 180-305 V_{AC} (L-N) or 2 of 3-Phase system 2 x 180-550 V_{AC} (L-L) or 254-780 V_{DC}
- Compact and corrosion resistant aluminium casing
- High Efficiency > 90.0%
- 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 pollutants

Applications



Output		DRP-24V120W2BN	DRP-24V240W2BN
Output Voltage		24 V	24 V
Output Voltage Range		24-28 V	24-28 V
Output Current		0-5.0 A	0-10.0 A
Output Power		120 W	240 W
PARD (20 MHz)		< 150 mVpp	< 150 mVpp @ -10°C and above < 200 mVpp @ below -10°C
Hold-up Time	2 × 230V _{AC}	> 10 ms	> 18 ms
	2 × 400V _{AC}	> 50 ms	> 30 ms
Input			
Phase Input		Single Phase or Two Phase	
Input Voltage Range		2 × 180-550 V _{AC} or 180-305 V _{AC} (Single Phase) (DC input range 254-780 V _{DC}) ¹⁾	
Input Frequency		47-63 Hz	
Input Current	2 × 230V _{AC}	< 1.20 A	< 2.00 A
	2 × 400V _{AC}	< 0.80 A	< 1.00 A
Efficiency ²⁾ at 100% Load	2 × 400V _{AC}	> 90.0%	
Max Inrush Current (Cold Start)	2 × 200V _{AC}	< 50 A	
	2 × 500V _{AC}		
Power Factor	2 × 230V _{AC} 2 × 400V _{AC}	Conform to EN 61000-3-2	
Leakage Current	500V _{AC}	< 1 mA	< 3.5 mA
Mechanical			
Case Cover / Chassis		Aluminium	
Dimensions (H × W × D)	mm	124 × 40 × 117	124 × 60 × 117
	inch	4.88 × 1.57 × 4.61	4.88 × 2.36 × 4.61
Unit Weight	kg	0.62	0.81
	lb	1.37	1.79
Cooling System	Convection		
MTBF ³⁾	> 800,000 hrs		> 500,000 hrs
Environment			
Operating Temperature ⁴⁾		-30°C to +70°C	
Storage Temperature		-40°C to +85°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

- All models are certified for DC input.
- At 25°C ambient temperature by vertical mounting orientation.
- MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 2 x 200V_{AC} O/P: 100% load) for vertical mounting orientation.
- Refer power de-rating in the product datasheet.
- All parameters are specified at 25°C ambient temperature unless otherwise indicated.

cliQ" (24 V)



- Power will not de-rate for the entire input voltage range
- Power Boost of 150% up to 5 s (480 W: 200% for 2 s)
- Full corrosion resistant aluminium casing
- Extreme low temperature cold start at -40°C
- Conformal coating on PCBAs to protect against common dust and pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2 (except DRP024V960W3BN)

Applications



Output		DRP024V060W3B□	DRP024V120W3B□	DRP024V240W3B□	DRP024V480W3B□	DRP024V960W3BN	
Output Voltage		24 V	24 V	24 V	24 V	24 V	
Output Voltage Range		24-28 V	24-28 V	24-28 V	24-28 V	24-28 V	
Output Current		0-2.5 A	0-5.0 A	0-10.0 A	0-20.0 A	0-40.0 A	
Output Power		60 W	120 W	240 W	480 W	960 W	
PARD (20 MHz)		< 150 mVpp				< 240 mVpp	
Hold-up Time	3 × 400 V _{AC}	> 20 ms				> 20 ms	
	3 × 500 V _{AC}	> 40 ms					
Input							
Phase Input		Two Phase or Three Phase					
Input Voltage Range (Does not exceed 600 V _{AC})		3 × 320-600 V _{AC} or 2 × 360-600 V _{AC} (DC input range 450-800 V _{DC}) ¹⁾					3 × 320-600 V _{AC} or 2 × 380-600 V _{AC} (DC input range 450-800 V _{DC}) ¹⁾
Input Frequency		47-63 Hz					
Input Current	3 × 400 V _{AC}	< 0.30 A	< 0.50 A	< 0.75 A	< 1.00 A	< 1.70 A	
	3 × 500 V _{AC}	< 0.25 A	< 0.40 A	< 0.65 A	< 0.75 A	< 1.40 A	
Efficiency ²⁾ at 100% Load	3 × 400 V _{AC}	> 86.0%	> 88.0%	> 91.0%		> 92.0%	
	3 × 500 V _{AC}						
Max Inrush Current (Cold Start) ³⁾	3 × 400 V _{AC}	< 30 A		< 40 A	< 50 A	< 60 A	
	3 × 500 V _{AC}						
Power Factor	3 × 400 V _{AC}	Conform to EN 61000-3-2			> 0.95	> 0.95	
	3 × 500 V _{AC}				> 0.94	> 0.94	
Leakage Current	3 × 500 V _{AC}	< 3.5 mA					
Mechanical							
Case Cover / Chassis		Aluminium					
Dimensions (H × W × D)	mm	121 × 50 × 117.3	121 × 50 × 117.3	121 × 70 × 117.3	121 × 140 × 117.3	121 × 255 × 117.3	
	inch	4.76 × 1.97 × 4.62	4.76 × 1.97 × 4.62	4.76 × 2.76 × 4.62	4.76 × 5.51 × 4.62	4.76 × 10.0 × 4.62	
Unit Weight	kg	0.66	0.66	0.89	1.35	2.60	
	lb	1.46	1.46	1.96	2.98	5.73	
Cooling System		Convection					
MTBF ⁴⁾		> 800,000 hrs		> 500,000 hrs		> 300,000 hrs	
Environment							
Operating Temperature ⁵⁾		-25°C to +80°C					-25°C to +65°C
Storage Temperature		-40°C to +85°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

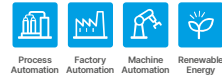
- All models fulfill the test conditions for this range. DC input safety approval can be obtained upon request. While DRP024V480W3B□ and DRP024V960W3B□ are also certified for DC input.
- At 25°C ambient temperature by vertical mounting orientation.
- AC-Source capability up to 3kVA.
- MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 3 x 400V_{AC} O/P: 100% load) for vertical mounting orientation.
- Refer power de-rating in the product datasheet.
- All parameters are specified at 25°C ambient temperature unless otherwise indicated.

CLiQ™ (48V)



- Power will not de-rate for the entire input voltage range
- High Efficiency > 91.0% @ 230V_{AC}
- Power Boost of 150% up to 5s
- Full corrosion resistant aluminium casing
- Extreme low temperature cold start at -40°C
- Conformal coating on PCBAs to protect against common dust and pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2

Applications



Output		DRP048V060W1B□	DRP048V120W1B□	DRP048V240W1B□	DRP048V480W1B□
Output Voltage		48 V	48 V	48 V	48 V
Output Voltage Range		48-56 V	48-56 V	48-56 V	48-56 V
Output Current		0-1.25 A	0-2.5 A	0-5.0 A	0-10.0 A
Output Power		60 W	120 W	240 W	480 W
PARD (20 MHz)		< 200 mVpp			
Hold-up Time	115 V _{AC}	> 20 ms		> 20 ms	
	230 V _{AC}	> 125 ms			
		> 50 ms			
Input					
Phase Input		Single Phase			
Input Voltage Range		85-264 V _{AC} (DC input range 120-375 V _{DC}) ¹⁾			
Input Frequency		47-63 Hz			
Input Current	115 V _{AC}	< 1.4 A	< 2.2 A	< 2.5 A	< 5.0 A
	230 V _{AC}	< 0.8 A	< 1.1 A	< 1.3 A	< 3.0 A
Efficiency ²⁾ at 100% Load	115 V _{AC}	> 91.0%	> 90.0%		> 91.0%
	230 V _{AC}	> 92.0%	> 92.0%		> 93.0%
Max Inrush Current (Cold Start)	115 V _{AC}	< 20 A	< 35 A		
	230 V _{AC}	< 35 A			
Power Factor	115 V _{AC}	Conform to EN 61000-3-2	> 0.99	> 0.96	
	230 V _{AC}		> 0.93	> 0.90	
Leakage Current		240 V _{AC}	< 1 mA		< 3 mA
Mechanical					
Case Cover / Chassis		Aluminium			
Dimensions (H × W × D)	mm	121 × 32 × 125	121 × 50 × 123.1	121 × 85 × 124.1	121 × 144 × 118.6
	inch	4.76 × 1.26 × 4.92	4.76 × 1.97 × 4.85	4.76 × 3.35 × 4.86	4.76 × 5.67 × 4.67
	kg	0.38	0.72	0.96	1.37
Unit Weight	lb	0.84	1.59	2.12	3.02
Cooling System		Convection			
MTBF ³⁾		> 800,000 hrs		> 500,000 hrs	
Environment					
Operating Temperature ⁴⁾		-25°C to +80°C			-25°C to +75°C
Storage Temperature		-40°C to +85°C			
Operating Humidity		5 to 95% RH (Non-Condensing)			
Operating Altitude		0 to 2,500 m (0 to 8,200 ft)			

Dimensions Reference



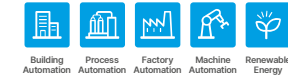
- Notes
- 1) All models fulfill the test conditions for DC input. DC input safety approval can be obtained upon request.
 - 2) At 25°C ambient temperature by vertical mounting orientation.
 - 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115V_{AC}, O/P: 100% load) for vertical mounting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

CLiQ™ (24V)



- Built-in constant current circuit for charging applications
- High efficiency of up to 94% at 230V_{AC}
- Power Boost of 150% up to 5s
- SEMI F47 compliance at 120V_{AC}
- 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 pollutants

Applications



Output		DRP-24V120W1C□N	DRP-24V240W1C□N	DRP-24V480W1C□N
Output Voltage		24 V	24V	24 V
Output Voltage Range		24-28 V	24-28V	24-28 V
Output Current		0-5.0 A	0-10.0 A	0-20.0 A
Output Power		120W	240 W	480W
PARD (20MHz)		< 100mVpp		
Hold-up Time	115 V _{AC} 230 V _{AC}	> 20ms		> 15ms
Input				
Phase Input		Single Phase		
Input Voltage Range		DRP-24V□W1C□N: 88-264 V _{AC} DRP-24V□W1C□N: 88-264 V _{AC} (DC input range 88-375 V _{DC}) ¹⁾		
Input Frequency		47-63Hz		
Input Current	115 V _{AC} 230 V _{AC}	< 1.4 A < 0.7 A	< 2.6 A < 1.3 A	< 5.0 A < 2.5 A
Efficiency ²⁾ at 100% Load	115 V _{AC} 230 V _{AC}	> 89.5% > 91.0%	> 91.0%	> 92.0% > 93.0%
Max Inrush Current (Cold Start)	115 V _{AC} 230 V _{AC}	< 35 A < 70 A	< 33 A < 65 A	< 40 A < 80 A
Power Factor	115 V _{AC} 230 V _{AC}	> 0.96 > 0.93	> 0.93	> 0.95
Leakage Current (264 V _{AC} , 50 Hz)	TT/TN IT	< 0.47 mA < 1.20 mA	< 0.74 mA < 2.00 mA	< 1.12 mA < 2.55 mA
Mechanical				
Case Cover / Chassis		Aluminium		
Dimensions (H × W × D)	mm inch	124 × 40 × 117 4.88 × 1.57 × 4.61	124 × 60 × 117 4.88 × 2.36 × 4.61	124 × 82 × 127 4.88 × 3.23 × 5.00
Unit Weight	kg lb	0.58 1.28	0.84 1.85	1.20 2.65
Cooling System		Convection		
MTBF ³⁾		> 1,411,300hrs	> 1,366,200 hrs	> 1,041,600 hrs
Environment				
Operating Temperature ⁴⁾		-25°C to +70°C		
Storage Temperature		-40°C to +85°C		
Operating Humidity		5 to 95% RH (Non-Condensing)		
Operating Altitude		0 to 5,000 m (0 to 16,400ft)		

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: 115V_{AC}, O/P: 100% load) for vertical mounting orientation.
 - 4) Refer power de-rating in the product datasheet.
 - 5) All parameters are specified at 25°C ambient temperature unless otherwise indicated.