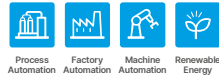


FORCE-GT (24 V)



- Built-in constant current circuit for charging applications
- Full load operating temperature up to 55°C
- Cold start at -40°C
- Ultra-Slim design
- Reduced no-load power consumption
- Built-in DC OK relay and LED indicator
- Conformal coating on PCBAs to protect against common dust and pollutants

Applications



NEW		NEW		NEW		NEW	
Output		DRF-24V120W3GBA		DRF-24V240W3GBA		DRF-24V480W3GBA	
Output Voltage		24 V		24 V		24 V	
Output Voltage Range		24-28 V		24-28 V		24-28 V	
Output Current		0-5.0 A		0-10.0 A		0-40.0 A	
Output Power		120 W		240 W		480 W	
PARD (20 MHz)		< 100 mVpp		< 150 mVpp		< 200 mVpp	
Hold-up Time	3 × 400V _{AC}	20 ms typ.		20 ms typ.			
	3 × 500V _{AC}	40 ms typ.					
Input							
Phase Input		Two or Three Phase					
Input Voltage Range		3 × 320-575 V _{AC} (3-Phase) or 2 × 340-575 V _{AC} (2-Phase) ¹⁾					
Input Frequency		47-63Hz					
Input Current	3 × 400V _{AC}	< 0.50 A	< 0.75 A	< 0.85 A	< 1.65 A		
	3 × 500V _{AC}	< 0.40 A	< 0.65 A	< 0.73 A	< 1.35 A		
Efficiency ²⁾ at 100% Load	3 × 400V _{AC}	87.5% typ.	89.5% typ.	94.0% typ.	94.5% typ.		
Max Inrush Current (Cold Start)	3 × 400V _{AC}	20 A typ.		35 A typ.			
	3 × 500V _{AC}	25 A typ.					
Power Factor	3 × 400V _{AC}	> 0.45		> 0.90		> 0.90	
	3 × 500V _{AC}	> 0.40	> 0.50	> 0.88			
Leakage Current		3 × 500V _{AC}	< 3.5 mA				
Mechanical							
Case Cover / Chassis		Aluminium					
Dimensions (H × W × D)	mm	124 × 38 × 125.3	124 × 50 × 125.3	124 × 65 × 127.3	124 × 110 × 128.7		
	inch	4.88 × 1.50 × 4.93	4.88 × 1.97 × 4.93	4.88 × 2.56 × 5.01	4.88 × 4.33 × 5.07		
Unit Weight	kg	0.54	0.84	1.20	2.26		
	lb	1.19	1.85	2.65	4.98		
Cooling System		Convection					
MTBF ³⁾		> 700,000 hrs		> 600,000 hrs		> 500,000 hrs	
Environment							
Operating Temperature ⁴⁾		3-Phase: -25°C to +70°C / 2-Phase: -25°C to +60°C					
Storage Temperature		-40°C to +85°C					
Operating Humidity		5 to 95% RH (Non-Condensing)					
Operating Altitude ⁵⁾		0 to 5,000m (0 to 16,400ft)					

Dimensions Reference



Notes

- 1) Power supply can operate at DC input.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 3 × 400 V_{AC} & 3 × 500 V_{AC}, O/P: 100% load) for vertical mounting orientation.
- 4) Refer power de-rating in the product datasheet.
- 5) According to IEC/EN 62368-1, IEC/EN 61010.
- 6) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

LYTE (12V, 24V, 48V)



- Built-in constant current circuit for reactive loads
- Full power from -10°C to +50°C @ 230 V_{AC} with -30°C cold start
- Compliance to SEMI F47 @ 200 V_{AC}
- NEC Class 2 / Limited Power Source (LPS) certified (DRL-24V75W1AZ□ & DRL-48V75W1AZ□)

Applications



Output		DRL-12V75W1AZ□	DRL-24V75W1AZ□	DRL-48V75W1AZ□
Output Voltage		12V	24V	48V
Output Voltage Range		10.8-13.2V	21.6-26V	43.2-52.8V
Output Current		6.25A	3.125A	1.57A
Output Power		75W	75W	75.36W
PARD (20MHz)		< 120mVpp @ > -10°C to +70°C < 360mVpp @ ≤ -10°C to -30°C		< 240mVpp @ > -10°C to +70°C < 480mVpp @ ≤ -10°C to -30°C
Hold-up Time	115V _{AC}	16ms typ. 60ms typ.		
	230V _{AC}			
Input				
Phase Input		Single Phase		
Input Voltage Range		85-264V _{AC} (DC input range 120-375V _{DC}) ¹⁾		
Input Frequency		47-63Hz		
Input Current	115V _{AC}	1.4A typ.	1.4A typ.	1.4A typ.
	230V _{AC}	0.9A typ.	0.9A typ.	0.9A typ.
Efficiency ²⁾ at 100% Load	230V _{AC}	87.5% typ.	89.0% typ.	90.0% typ.
Max Inrush Current (Cold Start)	230V _{AC}	50A typ.		
Power Factor	115V _{AC}	NA		
	230V _{AC}			
Leakage Current	240V _{AC}	< 1mA		
Mechanical				
Case Cover / Chassis		Plastic		
Dimensions (H × W × D)	mm	123.6 × 27 × 102	123.6 × 27 × 102	123.6 × 27 × 102
	inch	4.87 × 1.06 × 4.02	4.87 × 1.06 × 4.02	4.87 × 1.06 × 4.02
Unit Weight	kg	0.22	0.22	0.22
	lb	0.49	0.49	0.49
Cooling System	Convection			
MTBF ³⁾	> 700,000 hrs			
Environment				
Operating Temperature ⁴⁾		-20°C to +70°C		
Storage Temperature		-40°C to +85°C		
Operating Humidity		5 to 95% RH (Non-Condensing)		
Operating Altitude		0 to 5,000m (0 to 16,400ft)		

Dimensions Reference



Notes

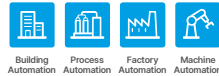
- 1) All models fulfill the test conditions for this range. DC input safety approval can be obtained upon request.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 100 V_{AC}, O/P: 100% load) for vertical mounting orientation.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

LYTE II (12V, 24V, 48V)



- Slim type design
- Built-in constant current circuit for reactive loads
- Operating from -30°C to +70°C with -40°C cold start
- Compliance with DOE VI energy standard (except 480 W)
- Reduced no-load power consumption
- Compliance to SEMI F47 @ 200 V_{AC}

Applications



					NEW				NEW									
Output		DRL-12V120W1EN□		DRL-12V240W1EN□		DRL-24V120W1EN□		DRL-24V240W1EN□		DRL-24V480W1EN□		DRL-48V120W1EN□		DRL-48V240W1EN□		DRL-48V480W1EN□		
Output Voltage		12V		12V		24V		24V		24V		48V		48V		48V		
Output Voltage Range		10.8-13.2V		10.8-13.2V		21.6-26.4V		21.6-26.4V		24-28V		43.2-52.8V		43.2-52.8V		48-55V		
Output Current		10.0A		20.0A		5.0A		10.0A		0-20.0A		2.5A		5.0A		0-10.0A		
Output Power		120W		240W		120W		240W		480W		120W		240W		480W		
PARD (20MHz)		< 120mVpp @ 0°C to +70°C < 360mVpp @ -30°C to 0°C				< 150mVpp @ 0°C to +70°C < 450mVpp @ -30°C to 0°C				< 150mVpp @ 0°C to +70°C < 450mVpp @ -30°C to 0°C				< 200mVpp @ 0°C to +70°C < 600mVpp @ -30°C to 0°C				
Hold-up Time	115V _{AC}	10ms typ.		20ms typ.		10ms typ.		20ms typ.		25ms typ.		10ms typ.		20ms typ.		25ms typ.		
	230V _{AC}	16ms typ.				16ms typ.						16ms typ.						
Input																		
Phase Input		Single Phase										Single Phase						
Input Voltage Range		90-264V _{AC}										90-264V _{AC}						
Input Frequency		47-63Hz										47-63Hz						
Input Current	115V _{AC}	2.1A typ.		2.5A typ.		2.1A typ.		2.5A typ.		4.7A typ.		2.1A typ.		2.5A typ.		4.7A typ.		
	230V _{AC}	1.3A typ.		1.3A typ.		1.3A typ.		1.3A typ.		2.4A typ.		1.3A typ.		1.3A typ.		2.4A typ.		
Efficiency ¹⁾ at 100% Load		230V _{AC}	86.0% typ.		86.5% typ.		88.5% typ.		86.5% typ.		93.0% typ.		89.5% typ.		90.5% typ.		93.5% typ.	
Max Inrush Current (Cold Start)		230V _{AC}	35A typ.		40A typ.		35A typ.		40A typ.		40A typ.		35A typ.		40A typ.		40A typ.	
Power Factor	115V _{AC}	NA		> 0.95		NA		> 0.95		> 0.96		NA		> 0.95		> 0.96		
	230V _{AC}									> 0.93						> 0.93		
Leakage Current		240V _{AC}	< 0.5mA		< 0.75mA		< 0.5mA		< 0.75mA		< 1.5mA		< 0.5mA		< 0.75mA		< 1.5mA	
Mechanical																		
Case Cover / Chassis		SGCC / Aluminium										SGCC / Aluminium						
Dimensions (H × W × D)	mm	123.6 × 30 × 116.8		123.6 × 40 × 116.8		123.6 × 30 × 116.8		123.6 × 40 × 116.8		123.6 × 56 × 116.8		123.6 × 30 × 116.8		123.6 × 40 × 116.8		123.6 × 56 × 116.8		
	inch	4.87 × 1.18 × 4.60		4.87 × 1.57 × 4.60		4.87 × 1.18 × 4.60		4.87 × 1.57 × 4.60		4.87 × 2.20 × 4.60		4.87 × 1.18 × 4.60		4.87 × 1.57 × 4.60		4.87 × 2.20 × 4.60		
	kg	0.45		0.62		0.45		0.62		0.87		0.45		0.62		0.87		
Unit Weight	lb	0.99		1.37		0.99		1.37		1.91		0.99		1.37		1.91		
	Cooling System																Convection	
MTBF ²⁾		> 700,000hrs										> 700,000hrs						
Environment																		
Operating Temperature ³⁾		-30°C to +70°C										-30°C to +70°C						
Storage Temperature		-40°C to +85°C										-40°C to +85°C						
Operating Humidity		20 to 90% RH (Non-Condensing)										20 to 90% RH (Non-Condensing)						
Operating Altitude		0 to 5,000m (0 to 16,400ft)										0 to 5,000m (0 to 16,400ft)						

Dimensions Reference



Notes

- 1) At 25°C ambient temperature by vertical mounting orientation.
- 2) MTBF as per Telcordia SR-332 (I/P: 115V_{AC} & 230V_{AC}, O/P: 100% load) for vertical mounting orientation.
- 3) Refer power de-rating in the product datasheet.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.