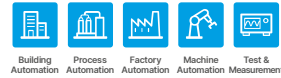


sync (5V, 12V, 24V)



- Ultra-compact size and galvanic isolation up to 3.0kV_{AC} between input to output and input to ground
- Full power from -10°C to +55°C operation
- Up to 90.0% efficiency
- Low earth leakage current < 0.5mA @ 264V_{AC}
- Built-in DC OK relay contact option available
- Extreme low temperature cold start at -40°C
- NEC Class 2 / Limited Power Source (LPS) certified

Applications



Output		DRS-5V30W1NZ	DRS-5V50W1□	DRS-5V50W1□	DRS-12V50W1□	DRS-24V30W1AZ	DRS-24V30W1NZ	DRS-24V50W1□	DRS-24V100W1□	DRS-24V100W1□
Output Voltage		5V	5V	5V	12V	24V	24V	24V	24V	24V
Output Voltage Range		5-5.5V	5-5.5V	5-5.5V	12-15V	21.6-26.4V	24-28V	24-28V	24-28V	22-24V
Output Current		0-3.0A	0-6.0A	0-5.0A	0-4.0A	0-1.25A	0-1.25A	0-2.1A	0-4.0A	0-3.8A
Output Power		15W	30W	25W	48W	30W	30W	50W	96W	91.2W
PARD (20 MHz)		< 75mVpp @ > 0°C to 70°C < 150mVpp @ 0°C to -20°C		< 50mVpp @ > 0°C to 70°C < 100mVpp @ 0°C to -20°C		< 150mVpp @ > 0°C to 70°C < 500mVpp @ 0°C to -20°C		< 70mVpp @ > 0°C to 70°C < 100mVpp @ 0°C to -20°C		< 50mVpp @ > 0°C to 70°C, < 100mVpp @ 0°C to -20°C
Hold-up Time	115V _{AC}	> 20ms				-	> 20ms		> 50ms	
	230V _{AC}	> 100ms				> 20ms	> 100ms			
Input										
Phase Input		Single Phase					Single Phase			
Input Voltage Range		85-264V _{AC} (DC input range 120-375V _{DC}) ¹⁾					85-264V _{AC}		85-264V _{AC} (DC input range 120-375V _{DC}) ¹⁾	
Input Frequency		47-63Hz					47-63Hz			
Input Current	115V _{AC}	< 0.40 A	< 0.60 A	< 0.60 A	< 0.90 A	< 0.80 A	< 0.55 A	< 0.95 A	< 1.20 A	< 1.20 A
	230V _{AC}	< 0.20 A	< 0.40 A	< 0.40 A	< 0.55 A	< 0.40 A	< 0.35 A	< 0.55 A	< 0.60 A	< 0.60 A
Efficiency ²⁾ at 100% Load	115V _{AC}	> 79.0%	> 82.0%		> 88.0%	-	> 87.5%	> 89.0%	> 89.0%	
	230V _{AC}		> 89.0%		> 89.0%	88.0% typ.		> 90.0%		
Max Inrush Current (Cold Start)	115V _{AC}	< 20 A	< 30 A		< 25 A	< 30 A	< 20 A	< 30 A	< 25 A	
	230V _{AC}	< 40 A	< 60 A		< 50 A	< 60 A	< 40 A	< 50 A	< 40 A	
Power Factor	115V _{AC}	Conform to EN 61000-3-2					Conform to EN 61000-3-2			> 0.97
	230V _{AC}									> 0.90
Leakage Current	240V _{AC}	-					< 0.5mA	-		
	264V _{AC}	< 0.5 mA	< 0.75 mA		< 0.5mA	-	< 0.5mA			
Mechanical										
Case Cover / Chassis		Plastic					Plastic			
Dimensions (H × W × D)	mm	75 × 21 × 89.5	75 × 30 × 89.5	75 × 30 × 89.5	75 × 30 × 89.5	75 × 21 × 89.5	75 × 21 × 89.5	75 × 30 × 89.5	75 × 45 × 100	75 × 45 × 100
	inch	2.95 × 0.83 × 3.52	2.95 × 1.18 × 3.52	2.95 × 1.18 × 3.52	2.95 × 1.18 × 3.52	2.95 × 0.83 × 3.52	2.95 × 0.83 × 3.52	2.95 × 1.18 × 3.52	2.95 × 1.77 × 3.94	2.95 × 1.77 × 3.94
	kg	0.11	0.16	0.16	0.18	0.10	0.11	0.18	0.325	0.325
Unit Weight	lb	0.24	0.35	0.35	0.40	0.22	0.24	0.40	0.72	0.72
	Cooling System									
MTBF ³⁾		> 700,000hrs					> 700,000hrs			
Environment										
Operating Temperature ⁴⁾		-20°C to +70°C					-20°C to +70°C			
Storage Temperature		-40°C to +85°C					-40°C to +85°C			
Operating Humidity		5 to 95% RH (Non-Condensing)					5 to 95% RH (Non-Condensing)			
Operating Altitude		0 to 2,000m (0 to 6,560ft)					0 to 2,000m (0 to 6,560ft)			

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) DRS-24V30W1AZ, MTBF as per Telcordia SR-332 (Confidence level: 90%; I/P: 100V_{AC}, O/P: 100% load) for vertical mounting orientation. Other models, MTBF as per Telcordia SR-332 (Confidence level: 90%; I/P: 115V_{AC} & 230V_{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.