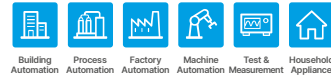


PMR (4.2V, 5V)

- Full corrosion resistant aluminium casing
- Built-in active PFC and conforms to harmonic current IEC/EN 61000-3-2, Class A and Class D
- Low profile design for 1U installation
- Built-in DC OK relay contact and redundancy operation (PMR-□V320WDBA and PMR-□V320WDCA)

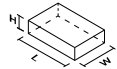


Applications



Output		PMR-4V320WC□A	PMR-4V320WDAA	PMR-4V320WDGA	PMR-4V320WDBA	PMR-4V320WDCA	PMR-5V320WC□A	PMR-5V320WDAA	PMR-5V320WDGA	PMR-5V320WDBA	PMR-5V320WDCA
Output Voltage		4.2V	4.2V	4.2V	4.2V	4.2V	5V	5V	5V	5V	5V
Output Voltage Range		3.78-4.62V	3.78-4.62V	3.78-4.62V	3.99-4.51V (No potentiometer)		4.50-5.50V		4.50-5.50V	4.75-5.25V (No potentiometer)	4.75-5.25V (No potentiometer)
Output Current		60.0A	60.0A	60.0A	60.0A	60.0A	60.0A	60.0A	60.0A	60.0A	60.0A
Output Power		252W	252W	252W	252W	252W	300W	300W	300W	300W	300W
PARD (20 MHz)		< 150mVpp					< 150mVpp				
Hold-up Time	115V _{AC} 230V _{AC}	8ms typ.					8ms typ.				
Input											
Phase Input		Single Phase						Single Phase			
Input Voltage Range		88-264 V _{AC}						88-264 V _{AC}			
Input Frequency		47-63Hz						47-63Hz			
Input Current	115V _{AC} 230V _{AC}	3.0A typ. 1.5A typ.	4.5A typ. 2.5A typ.	4.5A typ. 2.5A typ.	4.5A typ. 2.5A typ.	4.5A typ. 2.5A typ.	4.5A typ. 2.5A typ.	5.0A typ. 2.5A typ.	5.0A typ. 2.5A typ.	5.0A typ. 2.5A typ.	5.0A typ. 2.5A typ.
Efficiency ¹⁾ at 100% Load	115V _{AC} 230V _{AC}	80.5% typ. 83.5% typ.		84.5% typ. 86.5% typ.		84.0% typ. 86.0% typ.	81.0% typ. 84.0% typ.		86.0% typ. 88.0% typ.		85.0% typ. 87.0% typ.
Max Inrush Current (Cold Start)	115V _{AC} 230V _{AC}	20 A typ. 40 A typ.					20 A typ. 40 A typ.				
Power Factor	115V _{AC} 230V _{AC}	0.98 typ. 0.95 typ.					0.98 typ. 0.95 typ.				
Leakage Current	240V _{AC}	< 0.5mA	< 1mA				< 0.5mA	< 1mA			
Mechanical											
Case Cover / Chassis		Aluminium									
Dimensions (L × W × H)	mm inch	215 × 115 × 30 8.46 × 4.53 × 1.18	215 × 115 × 30 8.46 × 4.53 × 1.18	215 × 115 × 30 8.46 × 4.53 × 1.18	215 × 115 × 30 8.46 × 4.53 × 1.18	215 × 115 × 30 8.46 × 4.53 × 1.18	215 × 115 × 30 8.46 × 4.53 × 1.18	215 × 115 × 30 8.46 × 4.53 × 1.18	215 × 115 × 30 8.46 × 4.53 × 1.18	215 × 115 × 30 8.46 × 4.53 × 1.18	215 × 115 × 30 8.46 × 4.53 × 1.18
Unit Weight	kg lb	0.76 1.68	0.86 1.90	0.86 1.90	0.86 1.90	0.86 1.90	0.76 1.68	0.86 1.90	0.86 1.90	0.86 1.90	0.86 1.90
Cooling System	Forced Air (Built-in Fan)		Convection				Forced Air (Built-in Fan)		Convection		
MTBF ²⁾			> 700,000hrs						> 700,000hrs		
Environment											
Operating Temperature ³⁾		-10°C to +70°C	-20°C to +70°C				-10°C to +70°C		-20°C to +70°C		
Storage Temperature		-40°C to +85°C									
Operating Humidity		5 to 95% RH (Non-Condensing)						5 to 95% RH (Non-Condensing)			
Operating Altitude		0 to 5,000m (0 to 16,400ft)						0 to 5,000m (0 to 16,400ft)			

Dimensions Reference



Notes

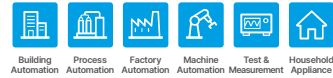
- 1) At 25°C ambient temperature by vertical mounting orientation.
- 2) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 100V_{AC}, O/P: 100% load, Ta: 35°C). For PMR-4V320WC□A and PMR-5V320WC□A, MTBF calculation does not include fan life time.
- 3) Refer power de-rating in the product datasheet.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

PMR (12 V, 24 V, 36 V, 48 V)



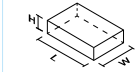
- Built-in active PFC circuit
- No load power consumption < 0.5W
- 30 mm height low profile design
- IEC/EN 60335-1, IEC/EN 61558-1, and IEC/EN 61558-2-16 household appliance standards
- Wide operating temperature -30°C ~70°C (-40°C cold start)

Applications



NEW		NEW		NEW		NEW			
Output		PMR-12V320W1AT		PMR-24V320W1AT		PMR-36V320W1AT		PMR-48V320W1AT	
Output Voltage		12 V		24 V		36 V		48 V	
Output Voltage Range		10.8-13.2 V		21.6-26.4 V		32.4-39.6 V		43.2-52.8 V	
Output Current		26.7 A		13.4 A		8.9 A		6.7 A	
Output Power		320.4 W		321.6 W		320.4 W		321.6 W	
PARD (20 MHz)		< 150 mVpp @ 0°C to 70°C 450 mVpp typ. @ -30°C to 0°C				< 200 mVpp @ 0°C to 70°C 600 mVpp typ. @ -30°C to 0°C			
Hold-up Time	115 V _{AC}	16 ms typ.						16 ms typ.	
	230 V _{AC}								
Input									
Phase Input		Single Phase				Single Phase			
Input Voltage Range		90-264 V _{AC}				90-264 V _{AC}			
Input Frequency		47-63 Hz				47-63 Hz			
Input Current	115 V _{AC}	3.8 A typ.		3.8 A typ.		3.8 A typ.		3.8 A typ.	
	230 V _{AC}	1.8 A typ.		1.8 A typ.		1.8 A typ.		1.8 A typ.	
Efficiency ¹⁾ at 100% Load	230 V _{AC}	90.5% typ.		91.0% typ.		91.5% typ.		92.0% typ.	
Max Inrush Current (Cold Start)	230 V _{AC}	50 A typ.				50 A typ.			
Power Factor	115 V _{AC}	> 0.96				> 0.96			
	230 V _{AC}	> 0.93				> 0.93			
Leakage Current	240 V _{AC}	< 0.75 mA				< 0.75 mA			
Mechanical									
Case Cover / Chassis		SGCC / Aluminium				SGCC / Aluminium			
Dimensions (L × W × H)	mm	215 × 115 × 30		215 × 115 × 30		215 × 115 × 30		215 × 115 × 30	
	inch	8.46 × 4.53 × 1.18		8.46 × 4.53 × 1.18		8.46 × 4.53 × 1.18		8.46 × 4.53 × 1.18	
	kg	0.64		0.64		0.64		0.64	
Unit Weight	lb	1.42		1.42		1.42		1.42	
Cooling System		Forced Air (Built-in Fan)				Forced Air (Built-in Fan)			
MTBF ²⁾		> 700,000 hrs				> 700,000 hrs			
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% (Non-Condensing)				20 to 90% (Non-Condensing)			
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)				0 to 5,000 m (0 to 16,400 ft)			

Dimensions Reference



Notes

- 1) At 25°C ambient temperature by vertical mounting orientation.
- 2) MTBF as per Telcordia SR-332 (I/P: 230 V_{AC}, O/P: 100% load, Ta: 25°C). MTBF calculation does not include fan life time.
- 3) Refer power de-rating in the product datasheet.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.