



Switching Power Supplies Eco2 Series

Overview

The WAGO Eco2 series is a great combination of performance and value when enhanced features are not required. The push-in connection and WAGO levers make connection with the Eco2 series quick, easy, and tool-free, saving time on wiring the power supply units. With a reduced overall width, the Eco2 saves space. With a high efficiency over 88% and the associated reduction in heat generated, the metal housing models are sustainable and durable. The built-in DC OK relay contact indicates whether the output voltage is in the nominal range. WAGO's impressive Eco2 Power Supply is an economical, reliable, robust power supply in control cabinets for 24 VDC mechanical engineering applications.

Features

- Optical status indication
- Suitable for either parallel or series operation
- Push-in Cage Clamp® technology and tool-free lever operation
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Rated for UL Hazardous Locations
- 2-year warranty



2687-2142

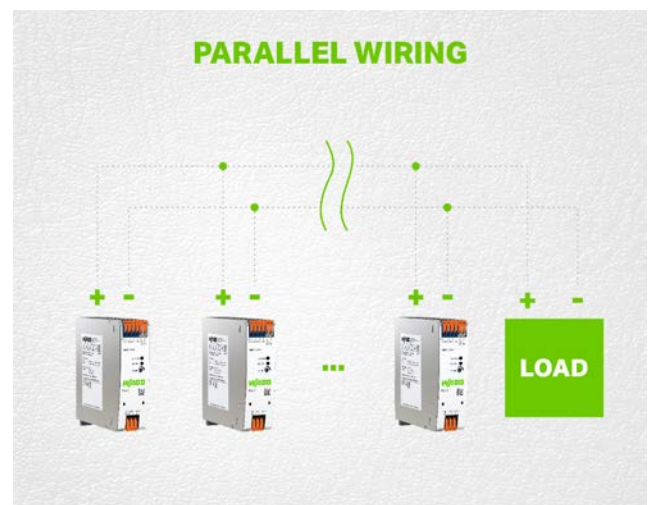


2687-2144



Switching Power Supplies									
Part Number	Price	Output Voltage Range (Adjustable)	Nominal Input	Output (Adjustable)	Efficiency	MTBF (@ 25°C)	Circuit Breaker	Weight grams [oz]	Drawing Link
Single Phase Input									
2687-2142	\$62.00	22-29 VDC	100-240 VAC	24 VDC @ 1.25A/30W	88% @110 VAC	> 1,000,000h [per IEC 61709]	C Curve 15A	160 [5.64]	PDF
2687-2143	\$86.00	22-29 VDC	120/240 VAC	24 VDC @ 2.5A/60W	90.5% @115 VAC			250 [8.81]	PDF
2687-2144	\$108.00	23-28 VDC	100-240 VAC	24 VDC @ 5A/120W	90% @110 VAC			620 [21.86]	PDF
2687-2146	\$182.00	23-28 VDC	100-240 VAC	24 VDC @ 10A/240W	93% @110 VAC			800 [28.21]	PDF

Wiring Diagrams





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General Specifications					
Part Number		2687-2142	2687-2143	2687-2144	2687-2146
Voltage Range		90-264 VAC			
Frequency Range		47-63 Hz			
Input Current		≤ 0.3A @ 230 VAC ≤ 0.6A @ 100 VAC	≤ 0.5A @ 230 VAC ≤ 1.1A @100 VAC	≤ 0.8A @ 230 VAC ≤ 1.5A @ 100 VAC	≤ 1.1A @ 230 VAC ≤ 2.7A @100 VAC
Inrush Current		≤ 10A [after 1ms]	≤ 20A [after 1ms]	≤ 20A [after 1ms]	≤ 25A [after 1ms]
Mains Failure Hold-Up Time		≥ 120ms (230 VAC) ≥ 15ms (110 VAC)	≥ 130ms (230 VAC) ≥ 3ms (110 VAC)	≥ 20ms (230 VAC)	≥ 25ms (230 VAC)
Residual Ripple		≤ 30mV (peak-to-peak @ 230 VAC)	≤ 20mV (peak-to-peak @ 230 VAC)	≤ 75mV (peak-to-peak)	
Overload Behavior		Constant power up to 125%; shutdown and automatic restart in the event of a short circuit	Constant power up to 130 %; shutdown and automatic restart in the event of a short circuit	Constant power up to 125%; shutdown and automatic restart in the event of a short circuit	Constant current up to 105 to 110%; shutdown and automatic restart in the event of a short circuit
Isolation	Primary - Secondary	3510 VAC			
	Primary - Ground	—		2200 VAC	
	Secondary - Ground	—		DC, 0.5 kV	
	Secondary Signal	—		DC, 0.5 kV	
Short-circuit Protection		Yes			
Parallel Operation		Yes			
Status Indicators		1 x LED DC OK (green)		Optical status indication (overload) Optical status indication (DC OK) Digital signal output (DO)	
Vibration (according to IEC 60068-2-6)		5Hz ≤ f ≤ 8.4 Hz: 3.5 mm, 8.4 Hz ≤ f ≤ 150Hz: 1g			
Shock (according to IEC 60068-2-27)		15g, 11ms, 3 shocks per axis (18 shocks in total)			
Temperature		Operating: -25 to 70°C [-13 to 158°F] Storage: -40 to 85°C [-40 to 185°F]			
Humidity		5 to 96% [no condensation permissible]			
Protection Rating		IP20			
Mounting		35mm DIN rail			
Housing Material		Plastic		Metal	
Connection		Push-in Cage Clamp®			
Solid or Fine Conductor		0.2 to 4mm² / 24-12AWG			
Ferrule Size		0.25 to 2.5 mm²			
Agency Approval		CE, UKCA, cULus File E255817, UL Hazardous E198726			

To obtain the most current agency approval information, see the Agency Approval Compliance & Certifications Checklist section on the specific part number's web page.