



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 of just 50mm [2.16 in], the Eco2 saves space. With a high efficiency over 90% and the associated reduction in heat generated, the devices 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 24VDC mechanical engineering applications.



2687-2142



2687-2144

Features

- Optical status indication
- Suitable for both parallel and series operation
- Connection technology with push-in termination and tool-free lever operation
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- 2-year warranty



Switching Power Supplies WAGO Eco2 Series						
Part Number	Price	Output Voltage Range (Adjustable)	Nominal Output Current	Nominal Output Power	Weight grams [oz]	Drawing Link
Single Phase Input						
2687-2142	\$60.00	22-29 VDC	1.25 A	30W	160 [5.64]	PDF
2687-2144	\$105.00	23-28 VDC	5A	120W	620 [21.86]	PDF
2687-2146	\$177.00	23-28 VDC	10A	240W	800 [28.21]	PDF

Input Specifications WAGO Eco2 Series								
Part Number	Nominal Voltage	Voltage Range	Frequency Range	Input Current	Inrush Current	Mains Failure Hold-Up Time	Efficiency [Typ.]	Circuit Breaker [Minimum]
2687-2142	100-240 VAC	90-264 VAC	47-63 Hz	≤0.3 @ 230VAC ≤0.6 A @ 100VAC	≤10A [after 1ms]	≥120ms (230VAC); ≥15ms (110VAC)	85%-90%	C Curve 15A
2687-2144				≤0.8 A @ 230VAC ≤1.5 A @ 100VAC	≤ 20A [after 1ms]	≥20ms (230VAC)	85%-90%	
2687-2146				≤1.1 A @ 230VAC ≤2.7 A @100VAC	≤25A [after 1ms]	≥25ms (230VAC)	90.1% and above	

Output Specifications WAGO Eco2 Series					
Part Number	Output Voltage	Voltage Range Adjustable	Residual Ripple	Overload Behavior	MTBF (@ 25°C)
2687-2142	24 VDC (SELV)	22-29 VDC	≤30mV (peak-to-peak, at 230 VAC)	Constant power up to 125%; shutdown and automatic restart in the event of a short circuit	> 1,000,000h [per IEC 61709]
2687-2144		23-28 VDC	≤75mV (peak-to-peak)		
2687-2146		23-28 VDC		Constant current up to 105 to 110%; shutdown and automatic restart in the event of a short circuit	



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General Specifications WAGO Eco2 Series			
Part Number	2687-2142	2687-2144	2687-2146
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]		
Isolation	Primary - Secondary	3510VAC	
	Primary - Ground	—	2200VAC
	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)		
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		

Wiring Diagrams

