POWER SUPPLY 1-PHASE, 24 V DC DIMENSION Q SERIES, 3.4 AND 5A

QS3.241
PSU 100-240V ac I/P 24V dc 3.4A 80W O/P



- Output currents of 3.4 and 5 A
- Up to 90% efficiency
- 50% bonus power up to 4 seconds
- Spring clamp terminals

PRODUCT DESCRIPTION

The most outstanding features of this Dimension Q-Series DIN-rail power supply are the high efficiency and the small size, which are achieved by a synchronous rectification and further novel design details. The Q-Series is part of the Dimension family, existing alongside the lower featured C-Series.
With short-term peak power capability of 150% and built-in large sized output capacitors, these features help start motors, charge capacitors and absorb reverse energy and often allow a unit of a lower wattage class to be used
High immunity to transients and power surges as well as low electromagnetic emission makes usage in nearly every environment possible.
Unique quick-connect spring-clamp terminals allow a safe and fast installation and a large international approval package for a variety of applications makes this unit suitable for nearly every situation.

- AC 100-240V Wide-range Input
- Width only 40mm
- Efficiency up to 92.7%
- 150% Peak Load Capability
- Easy Fuse Tripping due to High Overload Current
- Active Power Factor Correction (PFC)
- DC Input from 88 to 360Vdc
- Negligible low Inrush Current Surge
- Short-term Operation down to 60Vac and up to 300Vac
- Full Power Between -25°C and +60°C
- DC-OK Relay Contact
- Quick-connect Spring-clamp Terminals
- 3 Year Warranty

SPECIFICATIONS

Approvals	ABS, CB, CE, CSA, GL, UL
Depth	102
Effect	80
Efficiency At 120 V AC, full load. Typical	88.7
Efficiency At 230 V AC, full load. Typical	90
Efficiency At 230 V AC. Typical	88.3

Height	124
Hold-up time at 120 V AC, full load. Typical.	41
Hold-up time at 230 V AC, full load. Typical.	174
Input voltage AC	100-240 V
Input voltage ac max	276
Input voltage ac min	85
Input voltage DC	110-150 V
Input voltage dc max	150
Input voltage dc min	88
Input voltage range	Wide-range
Inrush current at 120 V ac typical	5
Inrush current at 230 V ac typical	10
IP Class	IP20
Lifetime at 120 V ac, full load and +40 ° C	62000
Lifetime at 230 V ac, full load and +40 ° C	79000
MTBF (IEC 61709) 230 V AC, Maximum Load, 40 ° C	1451000
Number of phases	1
Output Current	3.4
Output voltage	24
Output voltage max	28
Output voltage min	24
Power Consumption At 120 V AC	1.42
Power Consumption At 230 V AC	0.82
Power Factor at 120 V AC, full load. Typical	0.53
Power Factor at 230 V AC, full load. Typical	0.47
Power Reduction Of 60 To 70 ° C	2
Ripple. max	50
Series	Dimension Q
Supply Frequency	50-60 ±6 %
Temperature Range Without Derating From	-25
Temperature Range Without Derating To	60
Weight	0.44
Width	32

Fig. 6-1 Output voltage vs. output current, typ.

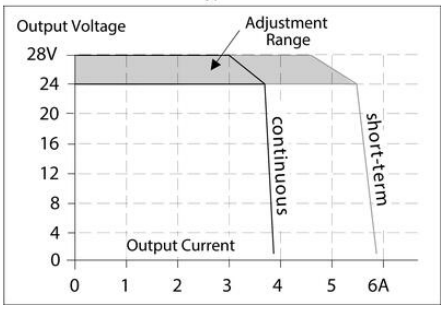

Fig. 14-1 Output current vs. ambient temp.

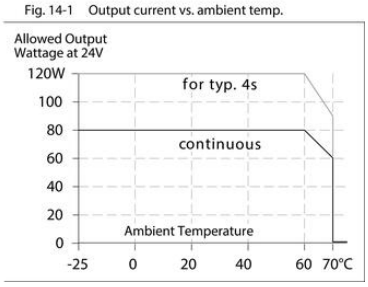

Fig. 8-2 Losses vs. output current at 24V, typ.

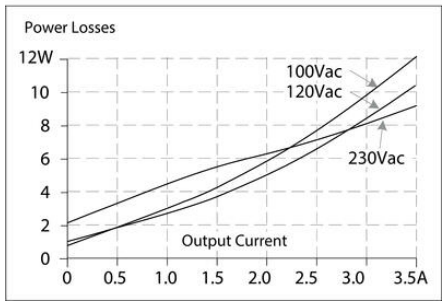

Fig. 8-1 Efficiency vs. output current at 24V, typ

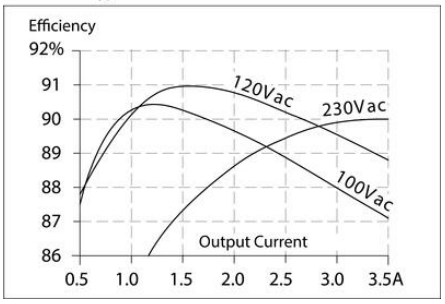

Fig. 6-2 Bonus time vs. output power

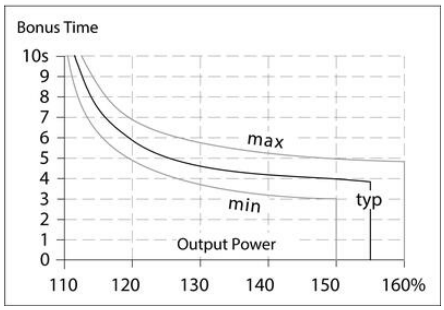



Fig. 21-1 Front view



Fig. 21-2 Side view

