

**POWER SUPPLY 1-PHASE, 36 V DC  
DIMENSION Q SERIES**

36-42 V DC, 13,3 A

QS20.361  
POWER SUPPLY 36-42VDC 13,3A AC 100-240V

- Width 82mm
- 94% efficiency
- 50 % Bonuspower 4s
- DC-OK relay and active PFC



**PRODUCT DESCRIPTION**

**SPECIFICATIONS**

Input voltage range	Wide-range
Number of phases	1
Input voltage AC	100-240 V
Input voltage ac min	85 V AC
Input voltage ac max	276 V AC
Input voltage DC	110-150 V
Input voltage dc min	88 V DC
Input voltage dc max	187 V DC
Inrush current at 120 V ac typical	4 A
Inrush current at 230 V ac typical	7 A
Power Factor at 120 V AC, full load. Typical	0.95
Power Factor at 230 V AC, full load. Typical	0.9
Supply Frequency	50-60 ±6 %
Power Consumption At 120 V AC	4.56 A
Power Consumption At 230 V AC	2.48 A
Type Power Supply	AC-DC

<b>Output voltage</b>	36 V DC
<b>Output voltage min</b>	36 V DC
<b>Output voltage max</b>	42 V DC
<b>Output Current</b>	13.3 A
<b>Effect</b>	480 W
<b>Power Reduction Of 60 To 70 ° C</b>	12 W/°C
<b>Ripple. max</b>	100 mV pp
<b>Temperature Range Without Derating From</b>	-25 °C
<b>Temperature Range Without Derating To</b>	60 °C

<b>Efficiency At 120 V AC, full load. Typical</b>	92.5 %
<b>Efficiency At 230 V AC. Typical</b>	93.3 %
<b>Efficiency At 230 V AC, full load. Typical</b>	94 %
<b>Lifetime at 120 V ac, full load and +40 ° C</b>	61000 h
<b>Lifetime at 230 V ac, full load and +40 ° C</b>	84000 h
<b>MTBF (IEC 61709) 230 V AC, Maximum Load, 40 ° C</b>	469000 h

<b>Width</b>	82 mm
<b>Height</b>	124 mm
<b>Depth</b>	127 mm
<b>Weight</b>	1.2 kg

<b>Clamp type</b>	Spring-clamp
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<b>Series</b>	Dimension Q
<b>Approvals</b>	ABS, CB, CE, CSA, GL, UL
<b>DC relay output</b>	Yes
<b>Material Protection</b>	Aluminium
<b>Hold-up time at 120 V AC, full load. Typical.</b>	32 ms
<b>Hold-up time at 230 V AC, full load. Typical.</b>	51 ms
<b>IP Class</b>	IP20

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

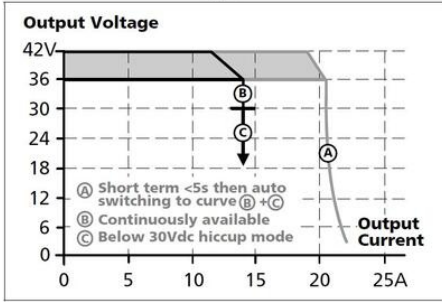


Fig. 15-1 Output current vs. ambient temp.

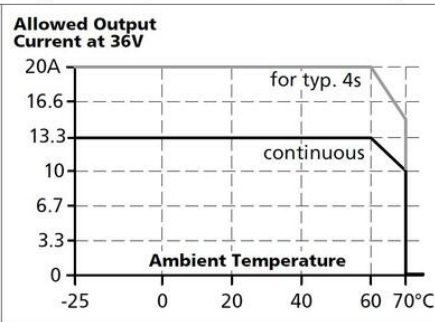


Fig. 6-2 Bonus time vs. output power

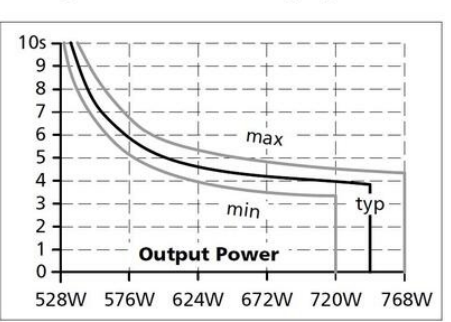


Fig. 6-3 Short-circuit on output, hiccup mode (typ.)

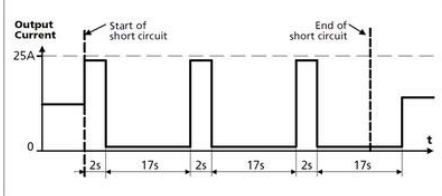


Fig. 9-1 Efficiency vs. output current at 36V, typ

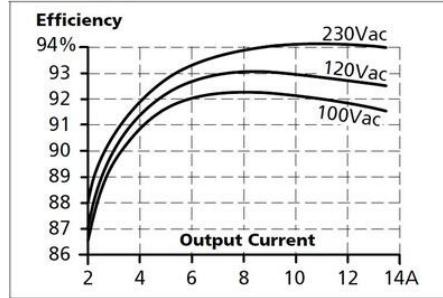
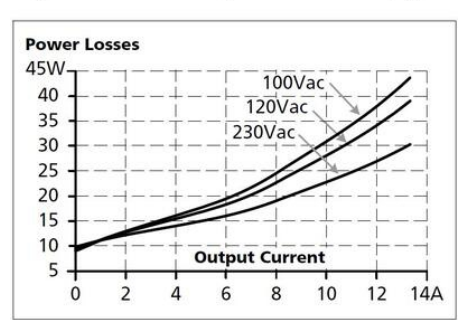


Fig. 9-2 Losses vs. output current at 36V, typ.



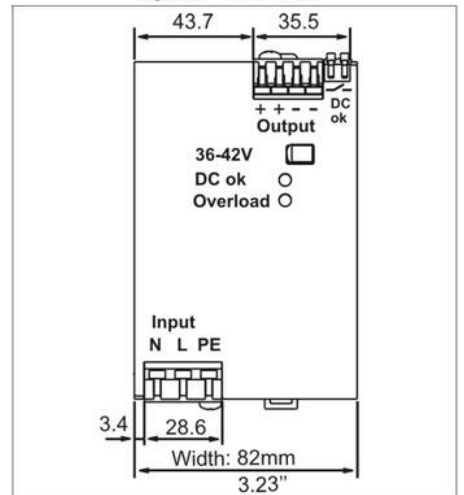
Maximal wire length\*) for a fast (magnetic) tripping:

	0.75mm <sup>2</sup>	1.0mm <sup>2</sup>	1.5mm <sup>2</sup>	2.5mm <sup>2</sup>
C-2A	51m	68m	92m	152m
C-3A	36m	51m	71m	112m
C-4A	26m	33m	49m	77m
C-6A	13m	17m	19m	39m
C-8A	5m	7m	10m	15m
C-10A	4m	5m	8m	11m
C-13A	1m	2m	3m	4m
B-6A	25m	30m	46m	71m
B-10A	11m	15m	19m	35m
B-13A	7m	12m	16m	26m
B-16A	-	1m	2m	3m

Fig. 13-1 Front side



Fig. 20-1 Front view



Side view

