

## POWER SUPPLY 1-PHASE, 36 V DC DIMENSION C SERIES, GENERATION 2

36-42V, 6,7A

CP10.361  
PSU 100-240V ac I/P 36V dc 6.7A 240W O/P

- Width 39mm
- 95,4% efficiency
- 20% power reserve
- Active PFC, DC-OK Relay Contact, Hiccup Plus



### PRODUCT DESCRIPTION

### TECHNICAL DATA

#### INPUT DATA

Input voltage ac	100-240 V
Input voltage ac min	85 V AC
Input voltage ac max	264 V AC
Input voltage dc	110-150 V
Input voltage dc min	88 V DC
Input voltage dc max	180 V DC
Inrush current at 120 V ac typical	6 A
Inrush current at 230 V ac typical	6 A
Input voltage range	Wide-range
Power factor at 120 V ac, full load. Typical	0,99
Power factor at 230 V ac, full load. Typical	0,97
Number of phases	1

#### OUTPUT DATA

Output voltage	36 V DC
Output voltage min	36 V DC

<b>Output voltage max</b>	42 V DC
<b>Output current</b>	6,7 A
<b>Power</b>	240 W

## EFFICIENCY / LIFETIME / MTBF

<b>Efficiency at 120 V ac, full load, typical</b>	93,8 %
<b>Efficiency at 230 V ac, typical</b>	94,3 %
<b>Efficiency at 230 V ac, full load, typical</b>	95,4 %
<b>Lifetime at 120 V ac, full load and +40 ° C</b>	87000 h
<b>Lifetime at 230 V ac, full load and +40 ° C</b>	130000 h
<b>MTBF (IEC 61709) 230 V ac, max load, 40 ° C</b>	661000 h

## DIMENSIONS

<b>Width</b>	39 mm
<b>Height</b>	124 mm
<b>Depth</b>	117 mm
<b>Weight</b>	0,6 kg

## OTHER

<b>Approvals</b>	ABS, CB, CE, CSA, EX, GL, IECEx, UL
<b>Hold time at 120 V ac, typical full load</b>	38 ms
<b>Hold time at 230 V ac, typical full load</b>	38 ms
<b>IP class</b>	IP20
<b>Clamp type</b>	Screw
<b>Material protection</b>	Aluminium
<b>Supply frequency</b>	50-60 ±6 %
<b>Ripple max</b>	50 mV pp
<b>Series</b>	Dimension C
<b>Power consumption 120 V ac</b>	2,16 A
<b>Power consumption 230 V ac</b>	1,13 A
<b>Power drop from +60 °C to +70 °C</b>	6 W/°C
<b>Temperature min without derating</b>	-25 °C
<b>Temperature max without derating</b>	60 °C
<b>DC relay output</b>	Yes
<b>Active Transient</b>	Yes

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

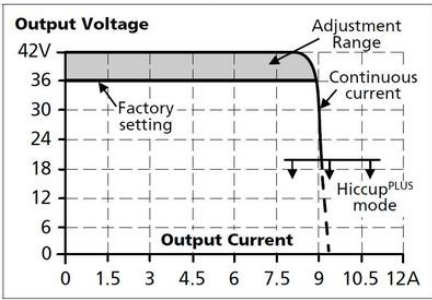


Fig. 6-2 Dynamic output current capability, typ.

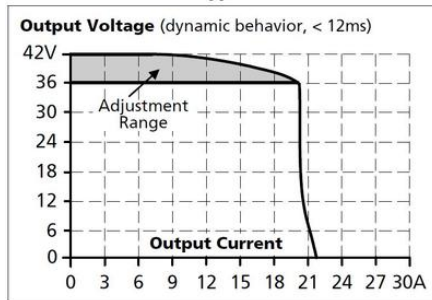


Fig. 16-1 Output current vs. ambient temp.

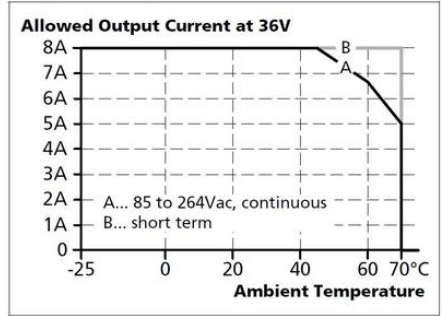


Fig. 6-3 Short-circuit on output, Hiccup<sup>PLUS</sup> mode, typ.

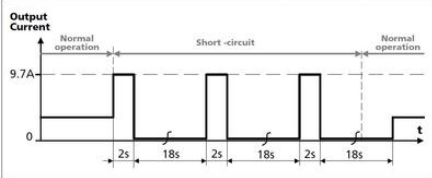


Fig. 9-1 Efficiency vs. output current at 36V, typ.

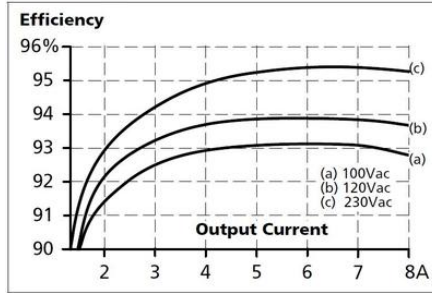
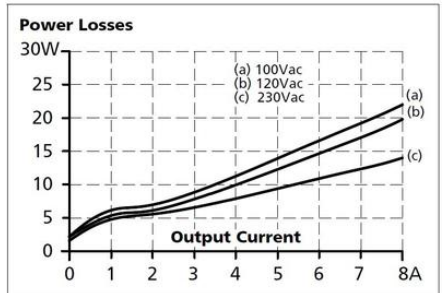


Fig. 9-2 Losses vs. output current at 36V, typ.



Maximal wire length<sup>1)</sup> 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	49m	64m	98m	> 120m
C-3A	14m	23m	30m	48m
C-4A	2m	2m	2m	2m
B-6A	7m	7m	7m	8m

Fig. 14-1 Front side



Fig. 22-1 Front view

