POWER CONTROL SYSTEMS
POWER SUPPLY UNITS

SQ480-3F range

Revision: 18R17.10.02
Sheet: R971009B

FEATURES

Input voltage
200-240V 3AC (180...264V 3AC)
400-500V 3AC (340...576V 3AC)

Input frequency
50/60Hz

Switching operating frequency
50KHz typ.

Input protections
• Inrush current typ. < 40A @ Vin max, cold-start.
• EMI filter
• Line fuses

See table for
• Efficiency at Vin 200V or 400V
• Power factor at Vin 200V or 400V
• Input current at Vin 200V or 400V
• Hold up time
• Output power
• Output voltage and current
• Output ripple and noise

Output protections
• Short circuit protection with automatic restart
• Overcurrent protection
• Overvoltage protection

Start up time
<1.3 sec.

Inhibit input
• (optional) High active (4.5÷15V)

Operating temperature
-10°C to 60°C

Temperature power derating
2%/°C (50÷60°C see diag.)

Storage temperature
-25°C to 85°C

Temperature drift
0.01%/°C typ.

Long term stability
Better than 1% after 24hours typ.

Cooling
Natural convection

Control and adjustment
• Vadjust trimmer

Operating indicators
• Green led Vout OK

Dielectric withstand voltage
• Conform to EN 60950

Isolation
• Output - P.E.: 500Vdc

Comply with
• EN 50081-2
• EN 61000-6-2
• EN 61000-3-2 cl. A
• EN 60950
• CE

Weight
2.65Kg

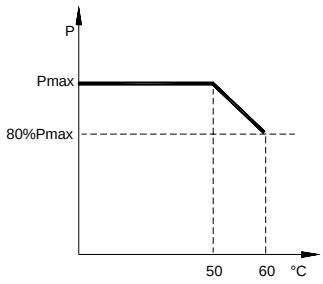
Optional features
• DD - Output decoupl. diode for parallel connection
• SF - Fixing bracket

Alarm Relay (U.V.P)
relay's contacts loading: <=30VA, <=125Vac, <=110Vdc

FEATURES TABLE

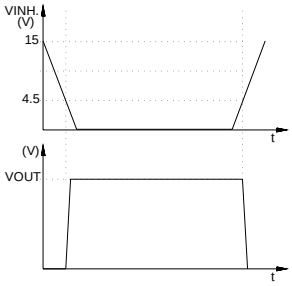
MODEL	Effic. Typ.%	Power factor Typ.	Input Current A	Hold Up Time ms	Output Power Max W	Vout Nom...Max Volts	Iout Nom (Vout Nom) A	Iout Min A	Voltage Accuracy %	Line Reg. %	Load Reg. %	Ripple & Noise (0÷20MHz) mV
SQ483-3F-200-240	85	0.86	3	>5	360	12...15	30	0	±0.5	±0.5	±2%	<200
SQ483-3F-400-500	85	0.86	1.5	>5								
SQ486-3F-200-240	88	0.86	3	>4	480	24...30	20	0	±0.5	±0.5	±2%	<200
SQ486-3F-400-500	89	0.86	1.5	>4								
SQ488-3F-200-240	88	0.86	3	>4	480	48...55	10	0	±0.5	±0.5	±2%	<200
SQ488-3F-400-500	90	0.86	1.5	>4								

TEMP. DERATING

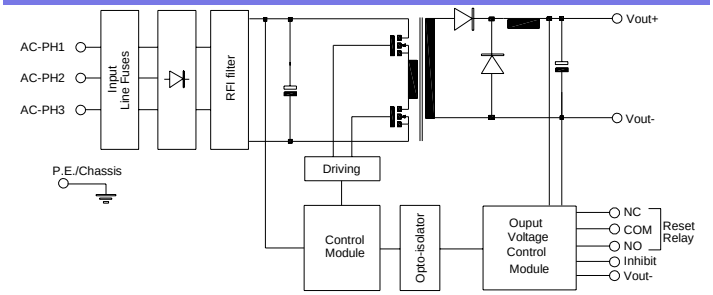


POWER SUPPLY VIEW

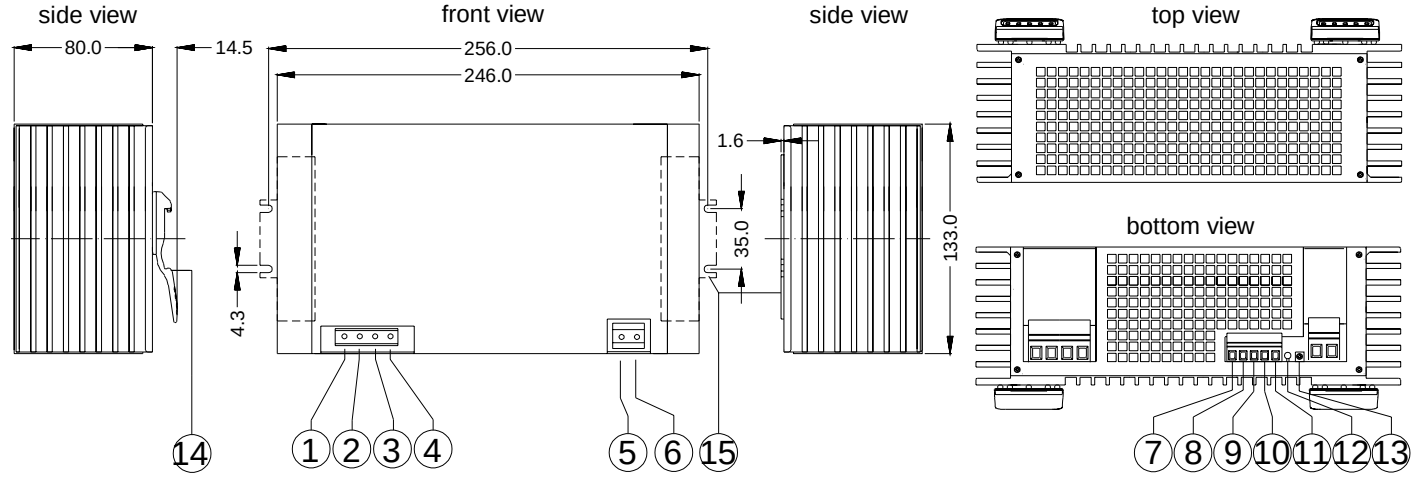
INHIBIT DIAGRAM



BLOCK DIAGRAM



DIMENSIONS AND CONNECTIONS



1)ACinput phase1 2)ACinput phase2 3)ACinput phase3 4)P.E. 5)Vout- 6)Vout+ 7)Vout- 8)Inhibit 9)Reset relay NO
10)Reset relay COM 11)Reset relay NC 12)led Vout ok 13)Vadj trimmer 14)DIN track attachment 15)SF-Fixing Bracket

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