POWER CONTROL SYSTEMS
POWER SUPPLY UNITS

M707

Industrial application Multi output AC-DC power supply units

FEATURES

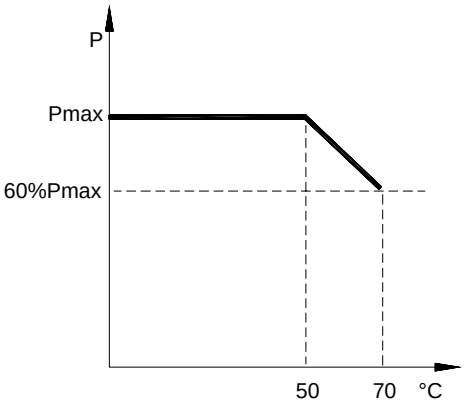
Input voltage
115/230Vac ±15%
jumper selectable on pcb
Input current
5.9A max
Input frequency
50÷60Hz
Efficiency
75% typ.
Switching operating frequency
30kHz typ.
Input protections
• Inrush current limitation
• Line fuse and EMI filter
Leakage current to GND
Max 1.5mA at 50Hz
See table for
• Output voltages and currents
• Line and Load regulation
• Output ripple and noise
Output protections
• Overload protection
• Short circuit protection
• Overvoltage protection
Hold up time
20msec min.
Output power
720W
Remote sense compensation
sense IL1 , sense IL2
Operating temperature
0°C to 50°C
Temperature power derating
2%/°C (50÷70°C)
Storage temperature
-20°C to 85°C
Temperature drift
0.05%/°C
Cooling
Forced ventilation with internal fan
Dielectric withstand voltage
• Input - Output : 3750Vac (on insul.comp)
• Input - P.E.: 1750Vac
Isolation
• Output - P.E.: 500Vdc
Comply with
• EN 50081-1
• EN 61000-6-2
• EN 60950-1
• CE
Weight
3700g
Programming
M707 is a programmable power supply.
Connect the programming voltage between Com(18) and Vprog(24)
Programming input voltage range is 3V÷6V.
Vout=Vprog x 6 (in linear mode 18÷36V).
Shut-off
To enable the outputs apply a voltage (5÷10V) between Com(18) and Shut-off(22)
Note
• With Vprog not connected the outputs are off

FEATURES TABLE

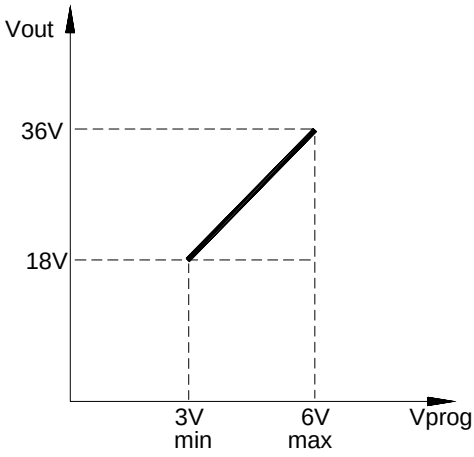
MODEL	OUT	Vout Volts	Iout Ampere	Imin Ampere	Imax Ampere	Line regulation VIN(min÷max) %	Load regulation (10÷100%) %	Ripple & Noise (0÷20MHz) mV
M707	V1	36	10	0	12	0.5	2	150
	V2	36	10	0	12	0.5	4	150

POWER SUPPLY VIEW

TEMP. POWER DERATING

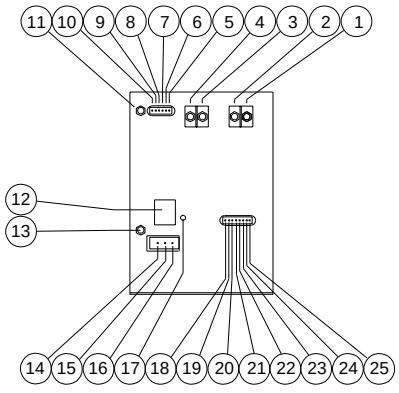


VPROG. DIAGRAM

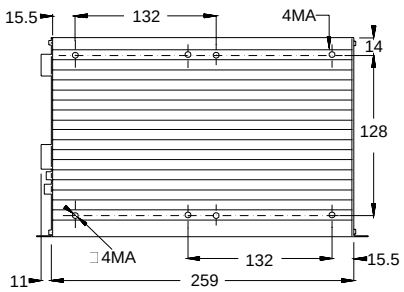


DIMENSIONS AND CONNECTIONS

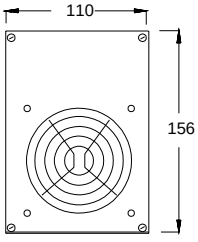
front view



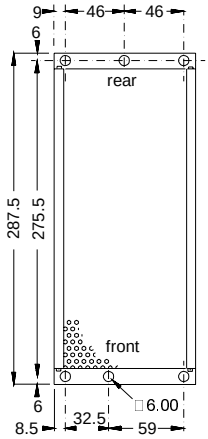
side view



rear view



top view



1)V1 2)Com 3)Com 4)V2 5)Sense IL2 6)n.c. 7)Com 8)n.c. 9)Sense IL1
10)n.c. 11)P.E./Chassis 12)Label 13)P.E./Chassis 14)AC input 15)n.c. 16)AC input
17)Vadj. 18)Com 19)n.c. 20)n.c. 21)n.c. 22)Shut-off 23)n.c. 24)Vprog. 25)n.c.

POWER CONTROL SYSTEMS S.p.A. · 31020 Zoppe' di San Vendemiano (TV) · Italy
Tel: +39 0438 771311 Fax: +39 0438 771301 e-mail: pcs@powercontrolsystems.com