MV Switched Mode Power Supply (SMPS)

The MV SMPS, is mounted on a Transistor Bridge Module. It provides the electronic supplies for the Transistor Bridge Module and the MV3000e Controller. The SMPS derives a supply from the drive d.c. link; the electronics are supplied during a temporary loss of supply.

There are three types of SMPS, each designed for a different supply voltage.

Switched Mode Power Supplies (SMPS) for MV DELTA Systems

One MV SMPS unit must be fitted to each Transistor Bridge Module. There are three ratings for the SMPS and these are detailed at Table 2-9.

Table 2-10 MV SMPS Power Supply Specification

Order Number	MVC3003-4001	MVC3003-4002	MVC3003-4003
Nominal Drive Supply Voltage (Va.c.)	380 V - 440 (400 V nominal)	460 V - 525 (480 V nominal)	575 V - 690 (600 V nominal)
Voltage Variation: - long term - 0.5 to 30 cycles with loss of performance but no trip	 ±10% +15%	 ±10% +15%	 ±10% +15%
SMPS Supply	Fed from d.c. link of MV DELTA Transistor Module		
Start Up Voltage (Vd.c.)	450	450	550
Overvoltage Trip (V)	784	882	1172
Undervoltage Trip (V)	400	450	560
Output Power (W)	110	110	110
Maximum Ambient (°C)	50	50	50
Weight in kg (lb)	1.5 kg (3.3 lb)	1.5 kg (3.3 lb)	1.5 kg (3.3 lb)

For proper and safe installation and use refer to the

MV DELTA Product Manual

Ref T1689

Avid Controls, Inc.
41261 Park 290 Dr
Waller, TX 77484
+1(281)640-8600
fax +1(281)640-8605
info@avidcontrolsinc.com