GMC2x

110v - 230v Voltage Doublers

Installation Notes

This instruction sheet gives handling information and precautions for use of the GMC2x series voltage doublers. Before using the equipment, please read through this leaflet carefully observing any safety instructions highlighted. Please forward this manual to the end user.

SAFETY INSTRUCTIONS

CAUTION - DANGEROUS VOLTAGES ARE PRESENT WHEN UNIT IS IN USE. DO NOT TOUCH THE VOLTAGE DOUBLER WHILE THE POWER IS ON OR FOR A SHORT TIME AFTERWARDS WHILE THE CHARGE LIGHT IS STILL ON.

CAUTION - THE INVERTER AND VOLTAGE DOUBLER MAY BECOME HOT WHILE THE POWER IS ON AND FOR A SHORT TIME AFTER BEING TURNED OFF. TOUCHING THE INVERTER OR VOLTAGE DOUBLER COULD CAUSE BURNS.

GMC20/21 - Open Frame Voltage Doublers

Secure the voltage doubler PCB to the panel backplate using PCB stand off pillars.
Metal pillars are recommended to maintain the earth continuity.
Connections are made using 6.35mm fast-on blade connectors, with the terminals marked as shown below:
The main earthing point is marked 'E' and should be the first to be connected.

Input Supply (110V AC)		Output to the Inverter (230V DC)	
Live	→ L	+	→ L1
Neutral	→ N	-	→ N
E (PE)	→ E	E (PE)	→ E

GMC22/23 - 'Deluxe' Enclosed voltage doublers

The fully enclosed units are designed for securing to standard 35mm top-hat DIN rail using the spring clip on the rear side of the enclosure.
The Deluxe units are supplied with two 300mm long flying leads with the cables numbered for easy connection to the inverter.

Input Supply (110V AC)		Output to the Inverter (230V DC)	
Live	→ L	+	→ L1
Neutral	→ N	-	→ N
E (PE)	→ E	E (PE)	→ E

Specifications

	GMC20	GMC21	GMC22	GMC23
Input Voltage	110V AC	110V AC	110V AC	110V AC
Output Voltage (on load)	250V DC	250V DC	250V DC	250V DC
Power Rating (kW)	0.25 - 0.4kW	0.75kW	0.25 - 0.4kW	0.75kW
Rated Current (A)	2 Amps	4 Amps	2 Amps	4 Amps
Fuse Protection	-	-	Yes	Yes
Charge Indication	Neon	Neon	LED	LED
Style	Open Frame	Open Frame	Enclosed	Enclosed
Mounting	PCB	PCB	DIN rail	DIN rail
Dimensions (mm)	94 x 64 x 35	94 x 64 x 55	102 x 70 x 64	102 x 70 x 64

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