



## Mannings 50kVA and 65kVA Transformer Units with 6 Temperature Controllers

50kVA Part Number 11000 • 65kVA Part Number 11100

### Mannings

Mannings mobile power units have achieved a world wide reputation for cost effective design, quality and reliability. The units are built and tested by qualified engineers, the reputation of the Mannings brand stands amongst the best in the world.

Mannings power units have been successfully operated on heat treatment projects in some of the most demanding climates around the world, for almost 50 years.

The power units are housed in a rigid heavy gauge sheet steel cabinet and are finished in a durable high quality paint finish. They have a low centre of gravity,

and are well balanced with mobility being provided by four 6" wheels.

**Technical Description** - this unit provides a 60 volt supply for powering various types of low voltage heating elements.

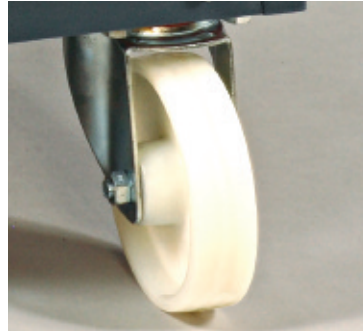
The unit consists of an air natural 3 phase transformer which is built into a well finished and compactly designed robust sheet steel case, switching is by contactors and its rugged and reliable design gives the unit long on site working life.

The output channels are controlled by means of energy regulators and temperature controllers, provision is made for connection to external

control from any compatible programmer/control unit.

Each channel has its own auto/manual switch so any channel can be operated either automatically, via an external compatible programmer unit, or manually by means of the internal energy regulator and temperature controller.

The unit is protected against overcurrent and core overtemperature conditions and has a facility to be tripped remotely from a compatible 110V output device (for example a remote workpiece overtemperature device).



### Ease of operation

- Clear illuminated digital displays are situated on the front of the unit showing actual and set point temperatures.
- LED indicator light 'showing power on' for each output channel.
- Input / output sockets are located on the back panel.
- Simple access to transformer tapping board at the rear of the unit.

These units are designed and manufactured in accordance with applicable European safety directives.

50kVA Transformer	65kVA Transformer
<b>Transformer Core:</b>	
Three Phase, Air Natural, Class 'H', 50kVA Primary windings connected in Delta Secondary winding connected in Star	Three Phase, Air Natural, Class 'H', 65kVA Primary windings connected in Delta Secondary winding connected in Star
<b>Primary Supply:</b>	
Primary Voltage: 380V, 415V, 440V Primary current: 76A, 70A, 66A Frequency 50/60 Hz	Primary Voltage: 380V, 415V, 440V Primary current: 99A, 90A, 85A Frequency 50/60 Hz
<b>Protection:</b>	
Three phase 100A circuit breaker with shunt trip Three primary core winding over temperature thermostats linked to circuit breaker shunt trip	Three phase 160A circuit breaker with shunt trip Three primary core winding over temperature thermostats linked to circuit breaker shunt trip
<b>Secondary Outputs:</b>	
Output: 65V Number of temperature controlled output channels: 6 channels Maximum load per output channel: three 60V, 2.7kW heating elements Maximum current per output channel: 135A Auxiliary Output: Two 110V, 5A, 50/60Hz fused output sockets Control: 6 - 110V Energy Regulators 6 - 110V Temperature Controllers 1 - Multi-pin socket for remote programmer Mode selection: 6 - Auto / Manual switches Indicators: 6 - 110V neon channel indicators	Output: 65V Number of temperature controlled output channels: 6 channels Maximum load per output channel: four 60V, 2.7kW heating elements Maximum current per output channel: 180A Auxiliary Output: Two 110V, 5A, 50/60Hz fused output sockets Control: 6 - 110V Energy Regulators 6 - 110V Temperature Controllers 1 - Multi-pin socket for remote programmer Mode selection: 6 - Auto / Manual switches Indicators: 6 - 110V neon channel indicators
<b>Construction (all dimensions are nominal):</b>	
Case: Robust sheet steel case complete with four 150mm diameter wheels Weight: 302kg Height: 1010mm Width: 675mm Depth: 725mm Lifting Method: Fork lift under base	Case: Robust sheet steel case complete with four 150mm diameter wheels Weight: 410kg Height: 1010mm Width: 675mm Depth: 725mm Lifting Method: Fork lift under base
<b>Mains Connection:</b>	
The unit is complete with 4.5 metres of 4 core primary cable	
<b>Switching:</b>	
Contactorisred - 6 off 200A, 110V ac solenoid contactors	

### Mannings

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