

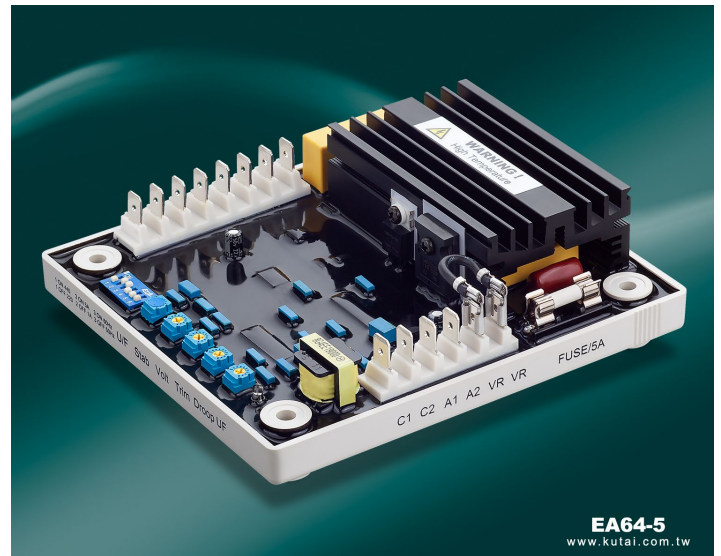
# EA64-5

## 5Amp with Full Wave Auxiliary Winding or PMG Automatic Voltage Regulator PWM Output

Compatible with ABB EA63-5

### Features

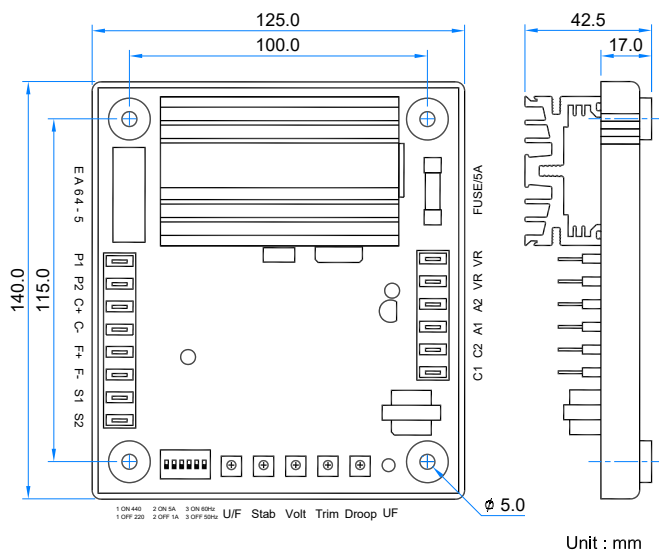
- Voltage regulation less than +/-0.5%
- 220/380/440Vac programmable input
- Rugged compact design
- Droop compensate
- Analogue voltage input
- With under frequency protection
- Soft start voltage ramping
- EMI suppression
- Built-in high capacity 5Amp fuse



### Specifications

|                                       |            |   |         |   |  |
|---------------------------------------|------------|---|---------|---|--|
| <b>Sensing Input</b>                  | Voltage    | 220/440 Vac                                   | 1 phase | <b>Volts Regulation</b>                             | Less than +/-0.5% (with 4% engine governing)     |
|                                       |            | 190 to 290 Vac @ 220 Vac                      |         | <b>Build Up Voltage</b>                             | 5Vac 25Hz residual volts at power input terminal |
|                                       |            | 330 to 515 Vac @ 440 Vac                      |         | <b>Typical System Response</b>                      | Less than 1 Cycle                                |
|                                       | Frequency  | 50/60 Hz (SW1 selectable)                     |         | <b>Static Power Dissipation</b>                     | Max. 12 watts                                    |
| <b>Power Input (1 phase)</b>          | Voltage    | 30 to 260 Vac                                 | 1 phase | <b>Quadrature Droop Input</b>                       | CT 5A or 1A > 5VA (SW2 selectable)               |
|                                       | Frequency  | 40 to 500 Hz                                  |         |   | Max. +/-7% @ P.F +/-0.7                          |
| <b>Excitation Output</b>              | Voltage    | Max. 85 Vdc @ power input 110 Vac             |         | <b>Analogue Voltage Input</b>                       | Un 0 to 15% @ 0 to 10 Vdc                        |
|                                       |            | Max. 170 Vdc @ power input 220 Vac            |         | <b>Under Frequency Protection (Factory Presets)</b> |  |
|                                       | Current    | Continuous 5A Intermittent 10A for 60 seconds |         |   | 50/60 Hz (SW3 selectable)                        |
|                                       | Resistance | Greater than 9 ohms                           |         |   | 40 to 50 Hz @ 50 Hz preset 45 Hz                 |
| <b>External Voltage Adjustment VR</b> |            |   |         |   | 49 to 60 Hz @ 60 Hz preset 55 Hz                 |
|                                       |            | Max. +/-5% @ 1K ohm 0.5 watt potentiometer    |         | <b>Voltage Thermal Drift</b>                        | Less than 3% at temperature range                |
|                                       |            | Max. +/-10% @ 2K ohms 0.5 watt potentiometer  |         |   | -40 to +70 °C                                    |

### Dimensions



### AVR Control Functions

|              |   |
|--------------|---|
| <b>VOLT</b>  | Voltage adjustment                            |
| <b>STAB</b>  | Stability adjustment                          |
| <b>U/F</b>   | Setting under frequency protection knee point |
| <b>Droop</b> | Droop adjustment                              |
| <b>TRIM</b>  | Analogue input adjustment                     |

### Environment

|                              |                       |
|------------------------------|-----------------------|
| <b>Operating Temperature</b> | -40 to +60 °C         |
| <b>Storage Temperature</b>   | -40 to +85 °C         |
| <b>Relative Humidity</b>     | Max. 95%              |
| <b>Vibration</b>             | 3.0 Gs @ 100 to 2K Hz |

### Physical Specifications

|                   |                                     |
|-------------------|-------------------------------------|
| <b>Dimensions</b> | 140.0 (L) x 125.0 (W) x 42.5 (H) mm |
| <b>Weight</b>     | 578 g +/-2%                         |

