

# Tetris L

## Rdm 6/12 standard

### RS 485

#### Tetris L

The power factor correction automatic system is built with strong sheet painted with RAL7035. The system is completed of door lock tripolar disconnector, control automatic regulator and batteries insertion, plug and play connectors to insert modules. Brick L modules are suited to complete the equipment with the right power. There is the cable entry from the top.



T5L01

T5L03

T6L01

T7L01

| DATA EQUIPMENT                          |      |   |  |   |  |   |  |   |  |   |  |    |  |   |  |    |  |
|---|------|---|--|---|--|---|--|---|--|---|--|----|--|---|--|----|--|
| Maximum power equipment                 | kVAr | 750   |  |   |  | 750   |  |   |  | 900   |  |    |  | 1200  |  |    |  |
| Dimension HxWxD                         | mm   | 1406x1482x671   |  |   |  | 1406x1482x671   |  |   |  | 1583x1482x671   |  |    |  | 1937x1482x671   |  |    |  |
| Door lock tripolar disconnector         | A    | 2x800   |  |   |  | 2x800   |  |   |  | 2x1000  |  |    |  | 2x1250  |  |    |  |
| Available units (to insert bricks)      | -    | 10  |  |   |  | 10  |  |   |  | 12  |  |    |  | 16  |  |    |  |
| BATTERIES COMPOSITION WITH BRICK MODULE |      |   |  |   |  |   |  |   |  |   |  |    |  |   |  |    |  |
| Position                                | -    | a   |  | i |  | a   |  | i |  | a   |  | i  |  | a   |  | i  |  |
| Battery n°                              | -    | 1   |  | 5 |  | 1   |  | 5 |  | 1   |  | 7  |  | 1   |  | 9  |  |
| Position                                | -    | b   |  | l |  | b   |  | l |  | b   |  | l  |  | b   |  | l  |  |
| Battery n°                              | -    | 2   |  | 5 |  | 2   |  | 5 |  | 2   |  | 8  |  | 2   |  | 9  |  |
| Position                                | -    | c   |  | m |  | c   |  | m |  | c   |  | m  |  | c   |  | m  |  |
| Battery n°                              | -    | 3   |  | 6 |  | 3   |  | 6 |  | 3   |  | 9  |  | 3   |  | 10 |  |
| Position                                | -    | d   |  | n |  | d   |  | n |  | d   |  | n  |  | d   |  | n  |  |
| Battery n°                              | -    | 4   |  | 6 |  | 4   |  | 6 |  | 4   |  | 10 |  | 4   |  | 10 |  |
| Position                                | -    | e   |  | o |  | e   |  | o |  | e   |  | o  |  | e   |  | o  |  |
| Battery n°                              | -    | 4   |  | 6 |  | 4   |  | 6 |  | 5   |  | 11 |  | 5   |  | 11 |  |
| Position                                | -    |   |  |   |  |   |  |   |  | f   |  | p  |  | f   |  | p  |  |
| Battery n°                              | -    |   |  |   |  |   |  |   |  | 6   |  | 12 |  | 6   |  | 11 |  |
| Battery n°                              | -    |   |  |   |  |   |  |   |  |   |  |    |  | g   |  | q  |  |
| Position                                | -    |   |  |   |  |   |  |   |  |   |  |    |  | 7   |  | 12 |  |
| Battery n°                              | -    |   |  |   |  |   |  |   |  |   |  |    |  | h   |  | r  |  |
| Position                                | -    |   |  |   |  |   |  |   |  |   |  |    |  | 8   |  | 12 |  |
| Painted metal sheet                     | RAL  | 7035  |  |   |  | 7035  |  |   |  | 7035  |  |    |  | 7035  |  |    |  |
| Indoor installation                     | -    | On the floor  |  |   |  | On the floor  |  |   |  | On the floor  |  |    |  | On the floor  |  |    |  |
| Degree of protection                    | IP   | 30  |  |   |  | 30  |  |   |  | 30  |  |    |  | 30  |  |    |  |
| Three phase power supply                | V    | 400   |  |   |  | 400   |  |   |  | 400   |  |    |  | 400   |  |    |  |
| Nominal frequency                       | Hz   | 50  |  |   |  | 50  |  |   |  | 50  |  |    |  | 50  |  |    |  |
| Auxiliary circuits voltage              | V    | 400   |  |   |  | 400   |  |   |  | 400   |  |    |  | 400   |  |    |  |
| Ambient temperature limits min-max      | °c   | -15° +35°   |  |   |  | -15° +35°   |  |   |  | -15° +35°   |  |    |  | -15° +35°   |  |    |  |
| Cable entry                             | -    | Below   |  |   |  | Below   |  |   |  | Below   |  |    |  | Below   |  |    |  |
| Ventilation                             | -    | Forced  |  |   |  | Forced  |  |   |  | Forced  |  |    |  | Forced  |  |    |  |
| DATA REGULATOR RDM 6/12 standard RS485  |      |   |  |   |  |   |  |   |  |   |  |    |  |   |  |    |  |
| N. of batteries controller              | N°   | 6   |  |   |  | 12  |  |   |  | 12  |  |    |  | 12  |  |    |  |
| Control batteries                       | -    | manual/automatic  |  |   |  | manual/automatic  |  |   |  | manual/automatic  |  |    |  | manual/automatic  |  |    |  |
| Allarms                                 | -    | Overvoltage, Overcurrent, Over, Undercompensation, Overtemperature, THDI%             |  |   |  | Overvoltage, Overcurrent, Over, Undercompensation, Overtemperature, THDI%             |  |   |  | Overvoltage, Overcurrent, Over, Undercompensation, Overtemperature, THDI%             |  |    |  | Overvoltage, Overcurrent, Over, Undercompensation, Overtemperature, THDI%             |  |    |  |
| Display                                 | -    | LCD 2 lines 16 characters backlight display   |  |   |  | LCD 2 lines 16 characters backlight display   |  |   |  | LCD 2 lines 16 characters backlight display   |  |    |  | LCD 2 lines 16 characters backlight display   |  |    |  |
| Parameters displayed on the display     | -    | Voltage, Current, Cos φ, Δ  |  |   |  | Voltage, Current, Cos φ, Δ  |  |   |  | Voltage, Current, Cos φ, Δ  |  |    |  | Voltage, Current, Cos φ, Δ  |  |    |  |
| Electrical quantities measured          | -    | Voltage, Current, Cos φ, 2-4  |  |   |  | Voltage, Current, Cos φ, 2-4  |  |   |  | Voltage, Current, Cos φ, 2-4  |  |    |  | Voltage, Current, Cos φ, 2-4  |  |    |  |
| Cos φ adjustment                        | -    | 0,85 ind. – 0,95 cap.   |  |   |  | 0,85 ind. – 0,95 cap.   |  |   |  | 0,85 ind. – 0,95 cap.   |  |    |  | 0,85 ind. – 0,95 cap.   |  |    |  |
| Range primary current transformer       | A    | 5-10.000  |  |   |  | 5-10.000  |  |   |  | 5-10.000  |  |    |  | 5-10.000  |  |    |  |
| Reactor power capacitor bank            | kVAr | 0,1 – 6500  |  |   |  | 0,1 – 6500  |  |   |  | 0,1 – 6500  |  |    |  | 0,1 – 6500  |  |    |  |
| Sensitivity adjustment                  | s    | 5 – 100   |  |   |  | 5-99  |  |   |  | 5-99  |  |    |  | 5-99  |  |    |  |
| Reconnection time                       | s    | 5-240   |  |   |  | 5-240   |  |   |  | 5-240   |  |    |  | 5-240   |  |    |  |
| Adjustment capacitor voltage            | V    | 100 – 1000  |  |   |  | 100 – 1000  |  |   |  | 100 – 1000  |  |    |  | 100 – 1000  |  |    |  |
| Alarm relay outputs of regulator        | -    | 1 contact NO-NC   |  |   |  | 1 contact NO-NC   |  |   |  | 1 contact NO-NC   |  |    |  | 1 contact NO-NC   |  |    |  |
| Communication port                      | -    | RS485   |  |   |  | RS485   |  |   |  | RS485   |  |    |  | RS485   |  |    |  |
| Alarm relay outputs of regulator        | A    | 8A - 250V (AC)  |  |   |  | 8A - 250V (AC)  |  |   |  | 8A - 250V (AC)  |  |    |  | 8A - 250V (AC)  |  |    |  |
| Power                                   | VA   | 3,3   |  |   |  | 5   |  |   |  | 5   |  |    |  | 5   |  |    |  |
| Standard accomplished                   | -    | IEC 831 - 1/2, CEI EN 60831-1/2, IEC 61921, CEI EN 61921, IEC 61439-2, CEI EN 61439-2 |  |   |  | IEC 831 - 1/2, CEI EN 60831-1/2, IEC 61921, CEI EN 61921, IEC 61439-2, CEI EN 61439-2 |  |   |  | IEC 831 - 1/2, CEI EN 60831-1/2, IEC 61921, CEI EN 61921, IEC 61439-2, CEI EN 61439-2 |  |    |  | IEC 831 - 1/2, CEI EN 60831-1/2, IEC 61921, CEI EN 61921, IEC 61439-2, CEI EN 61439-2 |  |    |  |
| Serial protocol                         | -    | ModbusRTU   |  |   |  | ModbusRTU   |  |   |  | ModbusRTU   |  |    |  | ModbusRTU   |  |    |  |