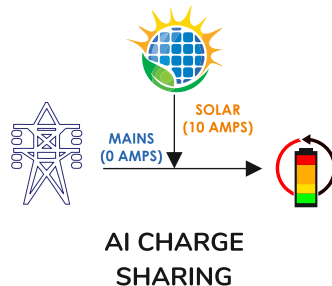


# INFLUX

## PWM SERIES PCU



### CORE FEATURES



- Big Display for Data
- Maximized Solar Usage through Intelligent modes.
- Incorporated with Microchip and ST DSP Engines
- Safety and Protections

- 6 Stage Battery Charging
- Multiple Battery Selection
- Sleek & Aesthetic design
- Works as standalone Solar Inverter in case of No-Grid

| INFLUX - SOLAR PWM PCU                   |                                                   |                                                                                                                                                                                                      |        |        |        |        |            |                             |  |
|------------------------------------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|--------|--------|------------|-----------------------------|--|
| Technical Specifications                 |                                                   |                                                                                                                                                                                                      |        |        |        |        |            |                             |  |
| Parameters                               | Units                                             | Rating                                                                                                                                                                                               |        |        |        |        |            |                             |  |
| Model                                    | INFLUX                                            | 1000VA                                                                                                                                                                                               | 1500VA | 2000VA | 2500VA | 3000VA | 5000VA     |                             |  |
| Operating DC Voltage                     | Volts                                             | 12                                                                                                                                                                                                   | 24     | 24     | 24     | 48     | 48         |                             |  |
| SPV Parameters                           |                                                   |                                                                                                                                                                                                      |        |        |        |        |            |                             |  |
| SPV Open Circuit Voltage Range (Min-Max) | VOC                                               | 16-30                                                                                                                                                                                                | 16-30  | 32-60  | 32-60  | 64-120 | 64-120     |                             |  |
| Max SPV Power                            | W                                                 | 650                                                                                                                                                                                                  | 800    | 1200   | 1600   | 2400   | 3200       |                             |  |
| Max Batt Current                         | Amps                                              | 50                                                                                                                                                                                                   | 60     | 50     | 60     | 50     | 60         |                             |  |
| Recommended Panel Cell                   | Cell                                              | 36                                                                                                                                                                                                   | 36     | 60/72  | 60/72  | 60/72  | 60/72      |                             |  |
| PWM Based Charge Controller              |                                                   |                                                                                                                                                                                                      |        |        |        |        |            |                             |  |
| Switching Element                        | MOSFET                                            |                                                                                                                                                                                                      |        |        |        |        |            |                             |  |
| Controller                               | DSP                                               |                                                                                                                                                                                                      |        |        |        |        |            |                             |  |
| Efficiency                               | 95%                                               |                                                                                                                                                                                                      |        |        |        |        |            |                             |  |
| Battery Charging Stages                  | 5 (Softstart, Boost, Absorbtion, Float, Equalise) |                                                                                                                                                                                                      |        |        |        |        |            |                             |  |
| Battery                                  |                                                   |                                                                                                                                                                                                      |        |        |        |        |            |                             |  |
| Low Cut Off                              | Volts                                             | 10.5/Batt +/-2%                                                                                                                                                                                      |        |        |        |        |            |                             |  |
| Low Cut Off Recovery                     | Volts                                             | 11.5/Batt +/-2%                                                                                                                                                                                      |        |        |        |        |            |                             |  |
| Low Buzzer                               | Volts                                             | 10.7/Batt +/-2%                                                                                                                                                                                      |        |        |        |        |            |                             |  |
| High Cut Off                             | Volts                                             | 15.5/Batt +/-2%                                                                                                                                                                                      |        |        |        |        |            |                             |  |
| High Cut Off Recovery                    | Volts                                             | 15.0/Batt +/-2%                                                                                                                                                                                      |        |        |        |        |            |                             |  |
| Boost Charging Volt by SPV(TUB)          | Volts                                             | 14.5/Batt +/-2%                                                                                                                                                                                      |        |        |        |        |            |                             |  |
| Boost Charging Volt by Grid(TUB)         | Volts                                             | 14.0/Batt +/-2%                                                                                                                                                                                      |        |        |        |        |            |                             |  |
| Charging Current by Grid                 | Amps                                              | 10A +/-2%                                                                                                                                                                                            |        |        |        |        |            |                             |  |
| Output                                   |                                                   |                                                                                                                                                                                                      |        |        |        |        |            |                             |  |
| Output@ No load                          | V                                                 | 220 +/-2%                                                                                                                                                                                            |        |        |        |        | 230 +/- 2% |                             |  |
| Output Frequency                         | Hz                                                | 50 +/- 2%                                                                                                                                                                                            |        |        |        |        |            |                             |  |
| Overload                                 | Watts                                             | 680W                                                                                                                                                                                                 | 800W   | 1.2KW  | 1.6KW  |        | 2.4KW      | 3.2KW                       |  |
|                                          | AC Amps                                           | 3.1                                                                                                                                                                                                  | 3.6    | 5.5    | 7.3    |        | 10.9       | 13.9                        |  |
|                                          | Disharging Amps                                   | 55                                                                                                                                                                                                   | 67     | 55     | 67     |        | 55         | 67                          |  |
| Output Low Retry                         | -                                                 | 1 time                                                                                                                                                                                               |        |        |        |        |            |                             |  |
| Output Short Circuit                     | -                                                 | 1 time                                                                                                                                                                                               |        |        |        |        |            |                             |  |
| Display                                  |                                                   |                                                                                                                                                                                                      |        |        |        |        |            |                             |  |
| Display                                  | Alphanumeric                                      | 16X2 LCD                                                                                                                                                                                             |        |        |        |        | 20X4 LCD   |                             |  |
| Parameters                               | Inverter                                          | Voltage, Current (Load%) and Frequency                                                                                                                                                               |        |        |        |        |            |                             |  |
|                                          | Input (Grid)                                      | Voltage and Frequency                                                                                                                                                                                |        |        |        |        |            |                             |  |
|                                          | Solar                                             | Voltage, Current                                                                                                                                                                                     |        |        |        |        |            | Power and Energy (Optional) |  |
|                                          | Battery                                           | Voltage, Current                                                                                                                                                                                     |        |        |        |        |            |                             |  |
|                                          | Status/Faults                                     | Inverter Status, Mains Status, Charger Status, Solar Status and Battery Status/Charging Stages                                                                                                       |        |        |        |        |            |                             |  |
| Grid                                     |                                                   |                                                                                                                                                                                                      |        |        |        |        |            |                             |  |
| No of Phase                              | -                                                 | 1Phase-3Wire P,N,E                                                                                                                                                                                   |        |        |        |        |            |                             |  |
| Voltage Range(Inverter)                  | V                                                 | 100-280 +/-2%                                                                                                                                                                                        |        |        |        |        |            |                             |  |
| Voltage Range(UPS)                       | V                                                 | 175-255 +/-2%                                                                                                                                                                                        |        |        |        |        |            |                             |  |
| Frequency Range                          | Hz                                                | 45-55 +/-2%                                                                                                                                                                                          |        |        |        |        |            |                             |  |
| Inverter                                 |                                                   |                                                                                                                                                                                                      |        |        |        |        |            |                             |  |
| Switching Element                        | -                                                 | MOSFET                                                                                                                                                                                               |        |        |        |        |            |                             |  |
| Output voltage                           | V                                                 | 220 +/-2%                                                                                                                                                                                            |        |        |        |        |            |                             |  |
| Phase                                    | -                                                 | 1Phase-3Wire P,N,E                                                                                                                                                                                   |        |        |        |        |            |                             |  |
| Output Waveform                          | -                                                 | Digitally Filtered Pure Sine Wave                                                                                                                                                                    |        |        |        |        |            |                             |  |
| Frequency                                | Hz                                                | 50                                                                                                                                                                                                   |        |        |        |        |            |                             |  |
| Changeover (Mains to Inverter)           | ms                                                | <10ms                                                                                                                                                                                                |        |        |        |        |            |                             |  |
| Output Power Factor                      | Pf                                                | 0.8                                                                                                                                                                                                  |        |        |        |        |            |                             |  |
| Overload Retry                           | -                                                 | 3 Times                                                                                                                                                                                              |        |        |        |        |            |                             |  |
| Switches                                 | -                                                 | System ON/OFF, Mode Selection: Hybrid / Smart, INV /UPS Selection                                                                                                                                    |        |        |        |        |            |                             |  |
| Indication                               | -                                                 | Inverter On, Mains In Range, Battery Low/High, Charger On, Overload, Faults                                                                                                                          |        |        |        |        |            |                             |  |
| Alarm                                    | -                                                 | Battery Low, Overload, Charger On, Inverter On, Solar Charger On                                                                                                                                     |        |        |        |        |            |                             |  |
| Protection                               | -                                                 | Overload,Short Circuit Protection,Over Voltage,SPV Surge and Transient protection (MOV Varistors), Reverse Polarity of Battery,Over temperature Protection,under voltage and over voltage Protection |        |        |        |        |            |                             |  |
| Cooling                                  | -                                                 | Forced Air cooling(Temp Controlled)                                                                                                                                                                  |        |        |        |        |            |                             |  |
| Operating Temp                           | C                                                 | 0-50                                                                                                                                                                                                 |        |        |        |        |            |                             |  |
| Operating Humidity                       | %                                                 | 95                                                                                                                                                                                                   |        |        |        |        |            |                             |  |
| Protection Class                         | -                                                 | IP20                                                                                                                                                                                                 |        |        |        |        |            |                             |  |

\*Due to continuous improvement technical specifications & product image can change without prior notice.