



# ALL SOLAR POWER PRODUCT



Complete Range of

# Solar rMPPT<sup>™</sup> Solutions











# rMPPT<sup>™</sup> Solar PCU (SIGMA-Grid Export SOLAR PCU)



Available in 1 to 10KVA

## **PCU Mode Priority**

Solar/Battery/Grid

## **Hybrid Mode Priority**

For Load - Grid/Solar/Battery For Charging-Solar/Grid

### **Smart Mode Priority**

Solar/Battery/Grid (Day Time)
Grid/Battery (Night Time)

## **Grid Export Mode**

Solar/Grid/Battery

#### **FEATURES**

- **→** Grid Interactive.
- DSP based design built in MPPT solar charge controller.
- **→** USB/Ethernet based monitoring with 30 days data storage.
- **→** Maximum preference to Solar Power.
- → Priority based working modes:
   <u>Smart Mode</u> Solar , Battery, Grid (Day time)
   <u>Grid</u>, Battery (Night time).
   <u>PCU Mode</u> Solar, Battery, Grid.
   <u>Hybrid Mode</u> Grid, Solar, Battery.
   <u>Grid Export Mode</u> Solar, Grid, Battery.
- ⇒ User friendly & easily accessible LCD Display with all AC & DC parameter configurable from LCD: AC- Input & Output Voltage.
   DC- Battery charging voltage. Charging current
  - DC- Battery charging voltage, Charging current, Low cut & High cut.
- → Compatible with all PV arrays having different no of cells (36 cell/60 cell/72 cell) with 100% panel power rating.
- **→** IEC 61683, 61727, 60529, 60068-2 (1,2,14,30) and 62116 standards approved from MNRE.

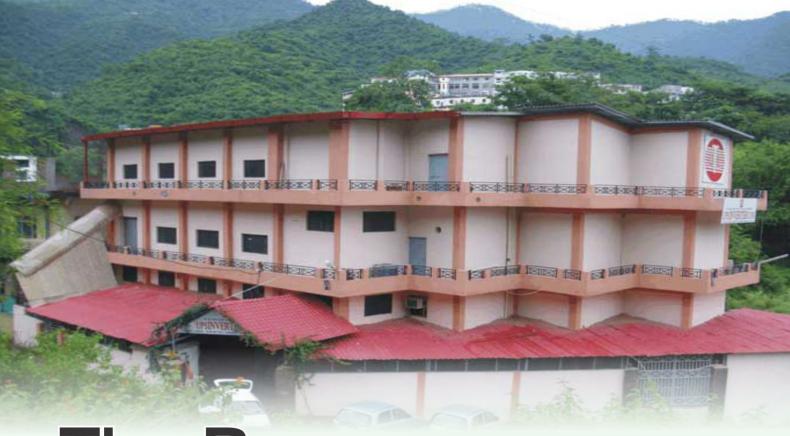
# **TECHNICAL SPECIFICATION**



# **SIGMA-Grid Export SOLAR PCU (1Ph in 1Ph Out)**

| Parameters  | Units                           |   |  | Rati   | ng   |   |  |                       |
|---|---------------------------------|---|--|--|--|---|--|-----------------------|
| System Rating   | KVA                             | 1   | 2  | 3  | 4  | 5   | 7.5  | 10                    |
| Operating DC Voltage  | V                               | 48  | 48   | 48   | 48   | 96  | 120  | 180                   |
| Photovoltaic Input  | 1400                            | 70.400  | 70.400   | 70.400   | 70.400   | 444.000   | 100 150  | 070 450               |
| Input Voltage range(MinMax.)  Maximum PV power recommended  | VDC<br>kW                       | 72-180<br>1   | 72-180<br>2  | 72-180   | 72-180<br>4  | 144-360<br>5  | 7.5  | 270-450<br>10         |
| MPPT based charge controller  | KVV                             | 1   | 2  | 3  | 4  | 5   | 7.5  | 10                    |
| Switching Element   |                                 | ř   |  | IGB  | Т  |   |  |                       |
| Controller  |                                 | DSP   |  |  |  |   |  |                       |
| Type of Charger   |                                 | PWM with MPPT   |  |  |  |   |  |                       |
| Efficiency  | %                               | 95<br>Configurable                                    |  |  |  |   |  | 0.6 604               |
| Parameters Battery Low Buzzer   | V                               | Ī   |  | A CONTRACTOR CONTRACTO | NEW CONTROL OF THE PROPERTY OF |   |  | Default Value<br>11.2 |
| Battery Low cut   | V                               | Batt. Low Cut +0.2<br>10-11.7                         |  |  |  |   |  | 11.2                  |
| Battery High cut  | v                               | 15-16   |  |  |  |   |  | 15.5                  |
| Battery Charging Voltage with SPV   | v                               | 13.5-15   |  |  |  |   |  | 14.5                  |
| Battery Charging Current with SPV   | Α                               | 2-24  |  |  |  |   |  | 18                    |
| Battery Charging Voltage with Grid  | V                               | 13-14.5   |  |  |  |   |  | 14.2                  |
| Battery Charging Current with Grid  | Α                               |   |  | 1-1  |  |   |  | 10                    |
| Grid low cut voltage(IT Mode/Normal)  Grid high cut voltage(IT Mode/Normal)  MODE DISABLE   | V                               |   |  | 175-200/1  |  |   |  | 175/120               |
| Grid high cut voltage(IT Mode/Normal) MODE DISABLE Grid Charging  | V                               |   |  | 245-255/2<br>Enable/D  |  |   |  | 255/280<br>Enable     |
| IT Load   | V                               |   |  | Enable/L   | 1000 HO (1000 PM)  |   |  | Enable                |
| Operating mode  |                                 |   |  | Smart/PCU/Hybr   |  |   |  | Smart                 |
| Output voltage low  | V                               | 15  |  | 170-1  |  |   |  | 185                   |
| Output voltage high   | V                               |   |  | 250-2  |  |   |  | 255                   |
| No load shutdown  |                                 |   |  | Enable/Disa  | ble (<2%)  |   |  | Disable               |
| GRID EXPORT MODE ENABLE   |                                 |   |  |  |  |   |  |                       |
| Grid Low/recover  | V                               |   |  | 185/1  |  |   |  |                       |
| Grid High/recover   | V                               |   |  | 280/2  | 179.074.   |   |  |                       |
| Synchronization voltage range Synchronization frequency range   | V<br>HZ                         |   |  | 185-2<br>47 to   |  |   |  |                       |
| maximum charging current from grid (import)   | A                               | ).  |  | 1-1  |  |   |  | 10                    |
| Battery   | A                               | l.  |  | 11   | JA .   |   |  | 10                    |
| Grid Disconnect (Solar Available)   |                                 |   | @14.5V/Batter  | y for 2 minutes O  | R 13.5V/Battery-1  | 100% Current  |  |                       |
| Grid Reconnect (PCU Mode / Smart Mode),   | V                               | *   | 11-12  | •  |  |   |  | 44.5                  |
|   | v                               |   | 11-12  |  |  |   |  | 11.5                  |
| Import ON (Grid Export mode)  | V                               |   | 11-12  |  |  |   |  | 11.5                  |
| Temp. Compensation  | V                               | 2   | 11-12  | @ 3mV/cell; 18   | BmV/Battery  |   |  | 11.5                  |
| Temp. Compensation Inverter   | V                               |   |  |  | BmV/Battery  | IGRT  |  | 11.5                  |
| Temp. Compensation  | V                               |   | MOSFE  |  |  | IGBT  |  | 11.5                  |
| Temp. Compensation Inverter Switching Element   | V                               |   |  | Т  | M  | IGBT  |  | 11.5                  |
| Temp. Compensation Inverter Switching Element Control Nominal Output voltage Output supply phase  | V                               |   |  | T PWI  | M<br>)   | IGBT  |  | 11.5                  |
| Temp. Compensation Inverter Switching Element Control Nominal Output voltage Output supply phase Output waveform  |                                 |   |  | T PWI<br>220<br>1Phase, :<br>Sine W  | M<br>)<br>3 Wire<br>/ave   | IGBT  |  | 11.5                  |
| Temp. Compensation Inverter Switching Element Control Nominal Output voltage Output supply phase Output waveform Nominal frequency  | Hz                              |   | MOSFE  | T PWI<br>220<br>1Phase, 3  | M<br>)<br>3 Wire<br>/ave   |   |  | 11.5                  |
| Temp. Compensation Inverter Switching Element Control Nominal Output voltage Output supply phase Output waveform Nominal frequency Load power factor  | Hz<br>Lagging                   |   |  | T PWI 220 1Phase, Sine W 50  | M<br>)<br>3 Wire<br>/ave   | IGBT  |  | 11.5                  |
| Temp. Compensation Inverter Switching Element Control Nominal Output voltage Output supply phase Output waveform Nominal frequency  | Hz                              |   | MOSFE  | T PWI<br>220<br>1Phase, :<br>Sine W  | M<br>)<br>3 Wire<br>/ave   |   |  | 11.5                  |
| Temp. Compensation Inverter Switching Element Control Nominal Output voltage Output supply phase Output waveform Nominal frequency Load power factor Voltage regulation   | Hz<br>Lagging<br>%              |   | 1  IT Load Disable auto reset):60sec; 20 auto reset: 30sec; 30 auto reset: 30 auto res | T PWI 220 1Phase, : Sine W 50 1  | M D S S Wire Vave 100-110 110-120  | 0.8<br>IT La  |  |                       |
| Temp. Compensation Inverter Switching Element Control Nominal Output voltage Output supply phase Output waveform Nominal frequency Load power factor Voltage regulation Output voltage distortion with 100% linear load   | Hz<br>Lagging<br>%              | 120-150%(3Times                                       | 1  IT Load Disable auto reset):60sec; 20 auto reset: 30sec; 30 auto reset: 30 auto res | T PWI 220 1Phase, Sine W 50 1  | M D D D D D D D D D D D D D D D D D D D  | 0.8<br>IT L<br>%:10min; 150-2(<br>%: 2min; 200-3(   | 00%:2sec; >400%<br>00%:2sec;   |                       |
| Temp. Compensation Inverter Switching Element Control Nominal Output voltage Output supply phase Output waveform Nominal frequency Load power factor Voltage regulation Output voltage distortion with 100% linear load Overload capacity  Peak efficiency Noise @ 1 meter  | Hz<br>Lagging<br>%<br>%         | 120-150%(3Times                                       | 1  IT Load Disable auto reset):60sec; 20 auto reset: 30sec; 30 auto reset: 30 auto res | T PWI 220 1Phase, Sine W 50 1  | 100-110<br>110-150   | 0.8<br>IT L<br>%:10min; 150-2(<br>%: 2min; 200-3(   | 00%:2sec; >400%<br>00%:2sec;   |                       |
| Temp. Compensation Inverter Switching Element Control Nominal Output voltage Output supply phase Output waveform Nominal frequency Load power factor Voltage regulation Output voltage distortion with 100% linear load Overload capacity  Peak efficiency  | Hz<br>Lagging<br>%<br>%         | 120150%(3Times<br>150-200%:2sec;                      | 1  IT Load Disable auto reset):60sec; 20 auto reset: 30sec; 30 >4  | T PWI 220 1Phase, Sine W 50 1  | M D D D D D D D D D D D D D D D D D D D  | 0.8  IT L %:10min; 150-20 %: 2min; 200-30 %:30sec; 300-40   | 00%:2sec; >400%<br>00%:2sec;<br>00%:250msec;   |                       |
| Temp. Compensation Inverter Switching Element Control Nominal Output voltage Output supply phase Output waveform Nominal frequency Load power factor Voltage regulation Output voltage distortion with 100% linear load Overload capacity  Peak efficiency Noise @ 1 meter  | Hz<br>Lagging<br>%<br>%         | 120150%(3Times<br>150-200%:2sec;                      | IT Load Disable auto reset):60sec; 20 auto reset: 30sec; 30 >4   | T PWI 220 1Phase, Sine W 50 1  | M ) 3 Wire /ave  100-110 110-120 120-150   | 0.8  IT Low 150-20  18:10min; 150-20  19:20min; 200-30  19:30sec; 300-40  19:30sec; 300-40  | 00%:2sec; >400%<br>00%:2sec;<br>00%:250msec;   |                       |
| Temp. Compensation Inverter Switching Element Control Nominal Output voltage Output supply phase Output waveform Nominal frequency Load power factor Voltage regulation Output voltage distortion with 100% linear load Overload capacity  Peak efficiency Noise @ 1 meter Cooling  | Hz<br>Lagging<br>%<br>%         | 120150%(3Times.<br>150-200%:2sec;                     | IT Load Disable auto reset):60sec; 20 auto reset: 30sec; 30 >4   | T PWI 220 1Phase, : Sine W 50 1 1 <3 00-300%:1 sec; 10-400%:250msec; 10-400%:250msec; 10-400%:20msec; 10-400%:250msec; 10-400 | M ) 3 Wire /ave  100-110 110-120 120-150 6  I Fan upto 3kva at High, Output Short el Reverse, Anti-island rent, charging KWH ar  | 0.8  IT Le %:10min; 150-20 %: 2min; 200-30 %:30sec; 300-40  Ckt., Input Short Ckt. ining and discharging KWH  | 00%:2sec; >400%<br>00%:2sec;<br>00%:250msec;   |                       |
| Temp. Compensation Inverter Switching Element Control Nominal Output voltage Output supply phase Output waveform Nominal frequency Load power factor Voltage regulation Output voltage distortion with 100% linear load Overload capacity  Peak efficiency Noise @ 1 meter Cooling  | Hz<br>Lagging<br>%<br>%         | 120150%(3Times.<br>150-200%:2sec;                     | IT Load Disable auto reset):60sec; 20 auto reset: 30sec; 30 >4   | T PWI 220 1Phase, Sine W 50 1 30-300%:1sec; 00-300%:250msec; 10-400%:250msec; 10-400%:250ms | M ) 3 Wire /ave  100-110 110-120 120-150  I Fan upto 3kva at High, Output Short el Reverse, Anti-island rent, charging KWH ar  | 0.8  IT Le %:10min; 150-20 %: 2min; 200-30 %:30sec; 300-40  Ckt., Input Short Ckt. ling and discharging KWH Energy  | 00%:2sec; >400%<br>00%:2sec;<br>00%:250msec;   |                       |
| Temp. Compensation Inverter Switching Element Control Nominal Output voltage Output supply phase Output waveform Nominal frequency Load power factor Voltage regulation Output voltage distortion with 100% linear load Overload capacity  Peak efficiency Noise @ 1 meter Cooling  | Hz<br>Lagging<br>%<br>%         | 120150%(3Times.<br>150-200%:2sec;                     | IT Load Disable auto reset):60sec; 20 auto reset: 30sec; 30 >4   | T PWI 220 1Phase, : Sine W 50 1 1 <3 00-300%:1 sec; 10-400%:250msec; 10-400%:250msec; 10-400%:20msec; 10-400%:250msec; 10-400 | M D S Wire Vave  100-110 110-120' 120-150' S Fan upto 3kva It High, Output Short el Reverse, Anti-island rent, charging KWH ar   | 0.8  IT Le %:10min; 150-20 %: 2min; 200-30 %:30sec; 300-40  Ckt., Input Short Ckt. ling and discharging KWH Energy  | 00%:2sec; >400%<br>00%:2sec;<br>00%:250msec;   |                       |
| Temp. Compensation Inverter Switching Element Control Nominal Output voltage Output supply phase Output waveform Nominal frequency Load power factor Voltage regulation Output voltage distortion with 100% linear load Overload capacity  Peak efficiency Noise @ 1 meter Cooling Protections  | Hz<br>Lagging<br>%<br>%         | 120150%(3Times<br>150-200%:2sec;<br>Overload          | IT Load Disable auto reset):60sec; 20 auto reset: 30sec; 33 >4  Battery Low, Battery Hi Under Frequency, Ove ery Voltage, Charging Co Solar Voltage, Solar Grid Voltage Grid ut Voltage, Output Curr   | T PWI 220 1Phase, : Sine W 50 1 1 <3 0-300%:1sec; 0-400%:250msec; 00%:20msec; >85 60 Temp. Controller gh, Output Low, Output r Frequency, Solar Pan urrent, Discharging Cur- Current, Instantaneou Current, Frequency, Instant Export Power, Expor   | M ) 3 Wire /ave  100-110 110-120 120-150  I Fan upto 3kva It High, Output Short el Reverse, Anti-island rent, charging KWH are s Power, Cummulative uport Power, Import It t Energy aneous Power & Cum   | 0.8  IT L. %:10min; 150-26 %: 2min; 200-30 %:30sec; 300-40  Ckt., Input Short Ckt. ling ad discharging KWH Energy Energy  | 00%:2sec; >400%<br>00%:2sec;<br>00%:250msec;   |                       |
| Temp. Compensation Inverter Switching Element Control Nominal Output voltage Output supply phase Output waveform Nominal frequency Load power factor Voltage regulation Output voltage distortion with 100% linear load Overload capacity  Peak efficiency Noise @ 1 meter Cooling Protections  Display Parameters  | Hz<br>Lagging<br>%<br>%         | 120150%(3Times<br>150-200%:2sec;<br>Overload          | IT Load Disable auto reset):60sec; 20 auto reset: 30sec; 30 >4  Battery Low, Battery Hi Under Frequency, Ove ery Voltage, Charging Co Solar Voltage, Solar Grid Voltage Grid ut Voltage, Output Curr   | T PWI 220 1Phase, : Sine W 50 11 <3 00-300%:1 sec; 10-400%:250msec; 10-400 | M ) 3 Wire /ave  100-110 110-120 120-150  I Fan upto 3kva It High, Output Short el Reverse, Anti-island rent, charging KWH ar s Power, Cummulative port Power, Import It t Energy aneous Power & Cum   | 0.8  IT Le %:10min; 150-2c %: 2min; 200-3c %:30sec; 300-4c  Ckt., Input Short Ckt. ling and discharging KWH Energy Energy mulative Energy   | 00%:2sec; >400%<br>00%:2sec;<br>00%:250msec;   |                       |
| Temp. Compensation Inverter Switching Element Control Nominal Output voltage Output supply phase Output waveform Nominal frequency Load power factor Voltage regulation Output voltage distortion with 100% linear load Overload capacity  Peak efficiency Noise @ 1 meter Cooling Protections  | Hz<br>Lagging<br>%<br>%         | 120150%(3Times<br>150-200%:2sec;<br>Overload<br>Batte | IT Load Disable auto reset):60sec; 20 auto reset: 30sec; 30 >4  Battery Low, Battery Hi Under Frequency, Ove ery Voltage, Charging Co Solar Voltage, Solar Grid Voltage Grid ut Voltage, Output Curr   | T PWI  220  1Phase, 3  Sine W  50  1  1  <33  00-300%:1 sec; 10-400%:250msec; 10-400%:250ms | M ) 3 Wire /ave  100-110 110-120 120-150  I Fan upto 3kva It High, Output Short el Reverse, Anti-island rent, charging KWH ar s Power, Cummulative iport Power, Import It t Energy aneous Power & Cum irger Status ENTER (for LCD Con  | 0.8  IT Le %:10min; 150-20 %: 2min; 200-30 %:30sec; 300-40  Ckt., Input Short Ckt. ling and discharging KWH Energy Energy mulative Energy figuration)   | 00%:2sec; >400% 00%:2sec; 00%:250msec;   |                       |
| Temp. Compensation Inverter Switching Element Control Nominal Output voltage Output supply phase Output waveform Nominal frequency Load power factor Voltage regulation Output voltage distortion with 100% linear load Overload capacity  Peak efficiency Noise @ 1 meter Cooling Protections  Display Parameters Switches Indications Environment   | Hz<br>Lagging<br>%<br>%<br>%    | 120150%(3Times<br>150-200%:2sec;<br>Overload<br>Batte | IT Load Disable auto reset):60sec; 20 auto reset: 30sec; 30 >4  Battery Low, Battery Hi Under Frequency, Ove ry Voltage, Charging Ct Solar Voltage, Solar Grid Voltage Grid ut Voltage, Output Curr C Reset for System ON/   | T PWI  220  1Phase, 3  Sine W  50  1  1  <33  00-300%:1 sec; 10-400%:250msec; 10-400%:250ms | M ) 3 Wire /ave  100-110 110-120 120-150  I Fan upto 3kva It High, Output Short el Reverse, Anti-island rent, charging KWH ar s Power, Cummulative iport Power, Import It t Energy aneous Power & Cum irger Status ENTER (for LCD Con  | 0.8  IT Le %:10min; 150-20 %: 2min; 200-30 %:30sec; 300-40  Ckt., Input Short Ckt. ling and discharging KWH Energy Energy mulative Energy figuration)   | 00%:2sec; >400% 00%:2sec; 00%:250msec;   |                       |
| Temp. Compensation Inverter Switching Element Control Nominal Output voltage Output supply phase Output waveform Nominal frequency Load power factor Voltage regulation Output voltage distortion with 100% linear load Overload capacity  Peak efficiency Noise @ 1 meter Cooling Protections  Display Parameters Switches Indications Environment Operating temperature   | Hz<br>Lagging %<br>%<br>%<br>dB | 120150%(3Times<br>150-200%:2sec;<br>Overload<br>Batte | IT Load Disable auto reset):60sec; 20 auto reset: 30sec; 30 >4  Battery Low, Battery Hi Under Frequency, Ove ry Voltage, Charging Ct Solar Voltage, Solar Grid Voltage Grid ut Voltage, Output Curr C Reset for System ON/   | T PWI 220 1Phase, : Sine W 50 11 <3 10-300%:1sec; 10-400%:250msec; 10-400%:250msec; 10-400%:250msec; 10-400%:250msec; 10-400%:250msec; 10-400%:250msec; 10-400%:250msec; 10-400%:250msec; 10-500#Emp. Controlled physical p | M ) 3 Wire /ave  100-110 110-120 120-150  I Fan upto 3kva It High, Output Short el Reverse, Anti-island rent, charging KWH ar s Power, Cummulative iport Power, Import It t Energy aneous Power & Cum irger Status ENTER (for LCD Con  | 0.8  IT Le %:10min; 150-20 %: 2min; 200-30 %:30sec; 300-40  Ckt., Input Short Ckt. ling and discharging KWH Energy Energy mulative Energy figuration)   | 00%:2sec; >400% 00%:2sec; 00%:250msec;   |                       |
| Temp. Compensation Inverter Switching Element Control Nominal Output voltage Output supply phase Output waveform Nominal frequency Load power factor Voltage regulation Output voltage distortion with 100% linear load Overload capacity  Peak efficiency Noise @ 1 meter Cooling Protections  Display Parameters Switches Indications Environment Operating temperature Max. Relative Humidity @ 25 C (non condensing)                                    | Hz<br>Lagging<br>%<br>%<br>%    | 120150%(3Times<br>150-200%:2sec;<br>Overload<br>Batte | IT Load Disable auto reset):60sec; 20 auto reset: 30sec; 30 >4  Battery Low, Battery Hi Under Frequency, Ove ry Voltage, Charging Ct Solar Voltage, Solar Grid Voltage Grid ut Voltage, Output Curr C Reset for System ON/   | T PWI 220 1Phase, Sine W 50 11 <3 00-300%:1 sec; 10-400%:250msec; 10-501 Power, Exporency, Instantaneou Current, Instantaneou Current, Frequency, Instantaneou Current, Frequency | M ) 3 Wire /ave  100-110 110-120 120-150  I Fan upto 3kva It High, Output Short el Reverse, Anti-island rent, charging KWH ar s Power, Cummulative iport Power, Import It t Energy aneous Power & Cum irger Status ENTER (for LCD Con  | 0.8  IT Le %:10min; 150-20 %: 2min; 200-30 %:30sec; 300-40  Ckt., Input Short Ckt. ling and discharging KWH Energy Energy mulative Energy figuration)   | 00%:2sec; >400% 00%:2sec; 00%:250msec;   |                       |
| Temp. Compensation Inverter Switching Element Control Nominal Output voltage Output supply phase Output waveform Nominal frequency Load power factor Voltage regulation Output voltage distortion with 100% linear load Overload capacity  Peak efficiency Noise @ 1 meter Cooling Protections  Display Parameters Switches Indications Environment Operating temperature   | Hz<br>Lagging %<br>%<br>%<br>dB | 120150%(3Times<br>150-200%:2sec;<br>Overload<br>Batte | IT Load Disable auto reset):60sec; 20 auto reset: 30sec; 30 >4  Battery Low, Battery Hi Under Frequency, Ove ry Voltage, Charging Ct Solar Voltage, Solar Grid Voltage Grid ut Voltage, Output Curr C Reset for System ON/   | T PWI 220 1Phase, : Sine W 50 11 <3 10-300%:1sec; 10-400%:250msec; 10-400%:250msec; 10-400%:250msec; 10-400%:250msec; 10-400%:250msec; 10-400%:250msec; 10-400%:250msec; 10-400%:250msec; 10-500#Emp. Controlled physical p | M ) 3 Wire /ave  100-110 110-120 120-150 6  If Fan upto 3kva It High, Output Short el Reverse, Anti-Island rent, charging KWH ar is Power, Cummulative uport Power, Import It E Energy aneous Power & Cum irger Status ENTER (for LCD Con iont on, Batt Low/ Hig operaton modes (sm  | 0.8  IT Le %:10min; 150-20 %: 2min; 200-30 %:30sec; 300-40  Ckt., Input Short Ckt. ling and discharging KWH Energy Energy mulative Energy figuration)   | 00%:2sec; >400% 00%:2sec; 00%:250msec;   |                       |
| Temp. Compensation Inverter Switching Element Control Nominal Output voltage Output supply phase Output waveform Nominal frequency Load power factor Voltage regulation Output voltage distortion with 100% linear load Overload capacity  Peak efficiency Noise @ 1 meter Cooling Protections  Display Parameters Switches Indications  Environment Operating temperature Max. Relative Humidity @ 25 C (non condensing) Degree of Protection              | Hz<br>Lagging %<br>%<br>%<br>dB | 120150%(3Times<br>150-200%:2sec;<br>Overload<br>Batte | IT Load Disable auto reset):60sec; 20 auto reset:30sec; 30 > 4   | T PWI 220 1Phase, : Sine W 50 11 <3 00-300%:1sec; 10-400%:250msec; 10-400%:250msec; 10-400%:20msec; 10-400%:20msec; 10-400%:250msec; 10-400%:250msec; 10-400%:250msec; 10-50 1-50 1-50 1-50 1-50 1-50 1-50 1-5   | M ) 3 Wire /ave  100-110 110-120 120-150 6  If Fan upto 3kva It High, Output Short el Reverse, Anti-Island rent, charging KWH ar is Power, Cummulative uport Power, Import It E Energy aneous Power & Cum irger Status ENTER (for LCD Con iont on, Batt Low/ Hig operaton modes (sm  | 0.8  IT Le %:10min; 150-20 %: 2min; 200-30 %:30sec; 300-40  Ckt., Input Short Ckt. ling and discharging KWH Energy Energy mulative Energy figuration) h,No load, Overload, art, hybrid, pcu and g | 00%:2sec; >400% 00%:2sec; 00%:250msec;   | :20msec;              |
| Temp. Compensation Inverter Switching Element Control Nominal Output voltage Output supply phase Output waveform Nominal frequency Load power factor Voltage regulation Output voltage distortion with 100% linear load Overload capacity  Peak efficiency Noise @ 1 meter Cooling Protections  Display Parameters Switches Indications  Environment Operating temperature Max. Relative Humidity @ 25 C (non condensing) Degree of Protection Data Logging | Hz Lagging % % % dB             | 120150%(3Times<br>150-200%:2sec;<br>Overload<br>Batte | IT Load Disable auto reset):60sec; 20 auto reset:30sec; 30 > 4   | T PWI 220 1Phase, : Sine W 50 11 <3 00-300%:1 sec; 10-400%:250msec; 10-400 | M ) 3 Wire /ave  100-110 110-120 120-150 6  If Fan upto 3kva It High, Output Short el Reverse, Anti-Island rent, charging KWH ar is Power, Cummulative uport Power, Import It E Energy aneous Power & Cum irger Status ENTER (for LCD Con iont on, Batt Low/ Hig operaton modes (sm  | 0.8  IT Le %:10min; 150-20 %: 2min; 200-30 %:30sec; 300-40  Ckt., Input Short Ckt. ling and discharging KWH Energy Energy mulative Energy figuration) h,No load, Overload, art, hybrid, pcu and g | 00%:2sec; >400% 00%:2sec; 00%:250msec; ., Overheat, ., Overheat, , overheat, , overheat, |                       |

<sup>\*</sup>Specifications are subject to change without prior notice due to constant improvement in design & technology



# The Power.....

As and when you need it.

- COMBO UPS
- SOLAR PCU
- ON LINE UPS
- DEEP IMPACT

- SINE COMBO UPS
- SUNPACK
- INVERTERS
- MPPT CHARGER



#### **CORPORATE OFFICE**

53A/4, 6 Rama Road Ind. Area Near Sat Guru Ram Singh Marg Metro Station Near NDPL Grid Office, New Delhi- 110015

#### **MANUFACTURING UNIT**

#### **Fujiyama Power Systems**

Village: Naryal, Near Sec.4 Barrier Parwanoo-173220, Distt.Solan Himachal Pradesh (India)

For Sales & Support : +91 9250 885 885 Landline: +91 11 65099208

E-mail: sales@utlups.com, Web: www.upsINVERTER.com