

SUNPUNCH PREMIUM SERIES DATASHEET

| INVERTER RATING (KVA) | 1KVA | 2KVA | 3KVA | 5KVA | 5KVA | 7.5KVA | 10KVA | 15KVA | 20KVA | 25KVA | 30KVA | 40KVA | 50KVA |
|--|---|------|------|------|------|--------|-------|-------|-------|-------|-------|-------|-------|
| A. SOLAR CHARGE CONTROLLER (SCC) | | | | | | | | | | | | | |
| 1 | Charge Type & Topology | | | | | | | | | | | | |
| 2 | PV Total Nominal Capacity (KVA) | | | | | | | | | | | | |
| 3 | No. of MPPT Channels | | | | | | | | | | | | |
| 4 | Per Channel PV Capacity (w/Nominal Peak) | | | | | | | | | | | | |
| 5 | Max. open Circuit PV Volts (Voc) | | | | | | | | | | | | |
| 6 | MPPT Voltage Range (Volts) | | | | | | | | | | | | |
| 7 | PV Minimum Voltage (Volts) | | | | | | | | | | | | |
| 8 | Max. I/P Amps per channel (Amps) | | | | | | | | | | | | |
| 9 | Max. Battery Amps during PV Charging (Amps) | | | | | | | | | | | | |
| 10 | Max. SCC O/P (Amps) | | | | | | | | | | | | |
| 11 | Battery type Supported | | | | | | | | | | | | |
| 12 | Min. Battery AH (Suggested) | | | | | | | | | | | | |
| 13 | Peak charging Efficiency (%) | | | | | | | | | | | | |
| B. SOLAR INVERTER | | | | | | | | | | | | | |
| 1 | No. of Phases/Connection Type | | | | | | | | | | | | |
| 2 | Nominal Battery Voltage (Volts) | | | | | | | | | | | | |
| 3 | Battery Ripple | | | | | | | | | | | | |
| 4 | Nominal Output Voltage/Frequency (Volts/Hz) | | | | | | | | | | | | |
| 5 | Nominal KVA Capacity (KVA) | | | | | | | | | | | | |
| 6 | Output Amps | | | | | | | | | | | | |
| 7 | Voltage Regulation (in standalore Mode) | | | | | | | | | | | | |
| 8 | Freq. Regulation (in Standalone mode) | | | | | | | | | | | | |
| 9 | THD | | | | | | | | | | | | |
| 10 | Load Power Factor | | | | | | | | | | | | |
| 11 | Efficiency (%): Peak/ 100% Load/25% Load | | | | | | | | | | | | |
| 12 | Over Loads : | | | | | | | | | | | | |
| 13 | Max Allowed Phase Imbalance (%) | | | | | | | | | | | | |
| 14 | Auto Bypass Feature | | | | | | | | | | | | |
| 15 | Parallel Operation with Grid/DG | | | | | | | | | | | | |
| 16 | Power Export to Grid Facility Enable / Disable | | | | | | | | | | | | |
| 17 | Anti Islanding from Grid | | | | | | | | | | | | |
| C. GRID CHARGER | | | | | | | | | | | | | |
| 1 | Grid Voltage Range (Voltage Sync. Range) | | | | | | | | | | | | |
| 2 | Grid Frequency Range (Freq. Sync. Range) | | | | | | | | | | | | |
| 3 | Max Grid Import Power (KVA) | | | | | | | | | | | | |
| 4 | Max Battery Amps During Grid Charging (Amps) | | | | | | | | | | | | |
| 5 | Peak charging Efficiency (%) | | | | | | | | | | | | |
| INVERTER (KW) | | | | | | | | | | | | | |
| 1 | 0.8 | 1.6 | 2.4 | 4.0 | 4.0 | 6.0 | 8.0 | 12.0 | 16.0 | 20.0 | 24.0 | 32.0 | 40.0 |
| 2 | PV Side | | | | | | | | | | | | |
| 3 | Battery Side | | | | | | | | | | | | |
| 4 | Grid Side | | | | | | | | | | | | |
| 5 | Load Side | | | | | | | | | | | | |
| 6 | System Protection | | | | | | | | | | | | |
| D. USER INTERFACE | | | | | | | | | | | | | |
| 1. DISPLAY INTERFACE | | | | | | | | | | | | | |
| Graphical Display with mimic diagram | | | | | | | | | | | | | |
| 2. DISPLAYED PARAMETERS | | | | | | | | | | | | | |
| 1 | Battery Parameters | | | | | | | | | | | | |
| 2 | PV Parameters | | | | | | | | | | | | |
| 3 | Grid Parameters | | | | | | | | | | | | |
| 4 | Load Parameters | | | | | | | | | | | | |
| 5 | Data Logging | | | | | | | | | | | | |
| 6 | System Level | | | | | | | | | | | | |
| 3. INDICATIONS/PROTECTION | | | | | | | | | | | | | |
| 1 | LED Indications: | | | | | | | | | | | | |
| 2 | User Keypad for Settings Change | | | | | | | | | | | | |
| 3 | Breakers at all inputs/Space Heater/Emergency stop Button | | | | | | | | | | | | |
| 4 | Over shoot due to misbehaviour of BHMS | | | | | | | | | | | | |
| 5 | Remote monitoring: Optional* | | | | | | | | | | | | |
| Designed and Manufactured the product as for IEC Tested as per IEC 61683, IEC 61727, IEC 62116 / IS 16169 EN 50530 and IEC 60068 (1, 2, 14, 30). | | | | | | | | | | | | | |
| MISCELLANEOUS | | | | | | | | | | | | | |
| 1 | Degree of Protection | | | | | | | | | | | | |
| 2 | Cooling Method | | | | | | | | | | | | |
| 3 | Operating Temperature | | | | | | | | | | | | |
| 4 | Humidity (Non-condensing) | | | | | | | | | | | | |
| 5 | Altitude (above sea level) | | | | | | | | | | | | |
| 6 | Housing | | | | | | | | | | | | |
| 7 | Colour Shade | | | | | | | | | | | | |
| 8 | Cable Entry | | | | | | | | | | | | |
| 9 | Cable Termination Type | | | | | | | | | | | | |
| 10 | Terminal Sizes(PV/Battery/Grid/Load) | | | | | | | | | | | | |
| 11 | Dimensions in mm (H X W X D) | | | | | | | | | | | | |
| 12 | Approx. Weight (kg) | | | | | | | | | | | | |

Note : The specifications are subject to change due to continuous improvements.
Higher rating systems are available on request.