

# DATASHEET

## 30K-3P-208V

### C&I Hybrid Inverter

| Input Data (PV)  |  |
|--|--|
| Max. Allowed PV Power (STC)  | 39,000W  |
| Nominal Voltage Range  | 150-500V   |
| Startup Voltage  | 150V   |
| Max. Input Voltage <sup>1</sup>                                    | 550V   |
| Max. operating input current per MPPT                              | 36A  |
| Max. short circuit current per MPPT                                | 55A  |
| No. of MPP Trackers  | 4  |
| No. of PV Strings per MPPT   | 2  |
| Max. AC Coupled Input  | 57,600W  |
| Output Data (AC)   |  |
| Nominal AC Voltage (3Φ)  | 120/208V   |
| Grid Frequency   | 50 / 60Hz  |
| Real Power, max continuous (3Φ)                                    | 30,000W  |
| Max. Output Current  | 83.4A  |
| Peak Apparent Power (7s, off-grid, 3Φ)                             | 45,000VA @ 125A  |
| Max. Grid Passthrough Current                                      | 200A   |
| Power Factor Output Range  | +/- 0.8 adjustable   |
| Backup Transfer Time   | 5ms (adjustable)   |
| CEC Efficiency   | 96.5%  |
| Max Efficiency   | 97.5%  |
| Design (DC to AC)  | Transformerless DC   |
| Stackable  | Up to 12 in parallel   |
| Battery Input Data (DC)  |  |
| Battery Chemistry  | Lithium iron phosphate   |
| No. of Battery Inputs  | 2  |
| Battery Input Terminal Rating                                      | 50A  |
| Nominal DC Voltage   | ≥300V  |
| Operating Voltage Range  | 160 - 500V   |
| Battery Capacity Range   | 50 – 9900Ah  |
| Max. Battery Charge / Discharge Current                            | 100A (50A per input)   |
| Charge Controller Type   | 3-Stage with Equalization  |
| Grid to Battery Charging Efficiency                                | 96.0%  |
| Automatic Generator Start (AGS)                                    | 2 Wire Start - Integrated  |
| BMS Communication <sup>2</sup>                                     | CANBus & RS485   |
| General Data   |  |
| Dimensions (H x W x D)   | 894 x 528 x 295 mm (35.2 x 20.8 x 11.6 in)   |
| Weight   | 79.4 Kg / 172 lb.  |
| Enclosure  | IP65 / NEMA 3R   |
| Ambient Temperature  | -40~60°C, > 45°C Derating  |
| Noise  | < 30 dB @ 25°C (77°F)  |
| Idle Consumption - No Load   | 60W  |
| Communication and Monitoring                                       | Wi-Fi & LAN Hardware Included  |
| Warranty   | 10 Years (15 Years <sup>4</sup> )  |
| Category   |  |
| Certifications and Listings<br>(Grid Support Interactive Inverter) | UL 1741-2021 (incl UL1741SB),<br>CSA C22.2 No 107.1-16, IEEE 1547-2018 & 1547a-2020 & 1547.1-2020 (SRD<br>V2.0), UL1699B, CEC <sup>3</sup> , SGIP <sup>3</sup> |
| PV DC Disconnect Switch – NEC 240.15                               | Integrated   |
| Ground Fault Detection – NEC 690.5                                 | Integrated   |
| PV Rapid Shutdown Control – NEC 690.12                             | Integrated   |
| PV Arc Fault Detection – NEC 690.11                                | Integrated   |
| PV Input Lightning Protection                                      | Integrated   |
| PV String Input Reverse Polarity Protection                        | Integrated   |
| Surge Protection   | DC Type II / AC Type III   |

1. See Installation Guide for more details on sizing array strings, the highest input voltage is based on the voltage open-circuit of the array at the minimum design temperature.

2. Active BMS communication is required for all lithium batteries. A list of compatible batteries can be found on our website.

3. Currently pending listing.

4. 5-year extension is available for purchase by registered Gold level installers only.