



I-Grid™ System / I-Sense™ Monitor Technical Specifications

I-Sense™ Monitor Specifications:

Voltage Ratings

Model	Phase	Volts	Hertz
V3120A00	Three	208 (L-L) 120 (L-N)	60
V3480A00	Three	480 (L-L)	60

Input Voltage Range

0 to 120% of nominal voltage

Accuracy of Measurement

Typically +/- 0.2% of full scale

Maximum +/- 1% of full scale

True RMS computation

Sampling Rate

32 times per cycle for each phase (3X oversampling)

Event Detection Criteria

RMS voltage deviation < 87% or > 115% of nominal

Adaptive wave shape deviation algorithm

Data Logging

Non-volatile memory event storage

- o Up to 200 events for single phase units

- o Up to 70 events for three phase units

Periodic min/max RMS voltage data over user-selected periods

User configurable event dial-up criteria

Protocols

V.32bis (14,400 bps) / V.42 Error Correction

HTTP, TCP/IP, PPP, XML

Shared touch-tone analog telephone line compatible

Recommend maximum of three shared units per telephone line

Currently available for use in USA

User Interface

LED/Button

Internal Battery

Rechargeable, long life, 9 volt

Enables dial-up on sustained power interruption

Temperature Range

0° C to 45° C

Certification

UL, FCC, CSA, CE, ICES

Diagnostics

Flashing LED for response/event notification

I-Grid™ System Event Display Specifications:

User Interface

Web browser via I-Grid.com website with geographic monitor placement

Event Display

Time stamp, RMS voltage profile & voltage waveforms per phase

For sustained interruptions, only first minute of RMS

voltage data and end time of event are displayed

Magnitude-Duration plots of user selected events

Display events against ITIC and SEMI F47 standards

Waveform Characteristics

32 points per cycle displayed, up to 3 phases

Maximum 8 cycles capability (from -1 to +3 cycles at

start of event, and -3 to +1 cycles at end of event)

Event Characterization

Per IEEE 1159.1 sags, swells,

under-voltages, over-voltages, interruptions

Time Stamp Reference

Based on SNTP Time Protocol

Synchronized to GMT (NIST reference)

Individual I-Sense monitors synchronized to +/- 0.1 seconds

Event Storage Capacity

>10,000 events for each I-Sense monitor

I-Grid Account Management:

User Interface

Web browser via I-Grid.com website

Event Notification

User configurable email or pager* notification

Event Severity Discriminator

User configurable event reporting*

Event Reporting Response

Typically 90 to 120 seconds

I-Sense Unit Management

User configurable for I-Sense monitor dial-out schedule and

local ISP phone number (ISP provided by SoftSwitching)

Data Mining and Reports

See website for free data processing and reporting functions

(Contact SoftSwitching for additional needs)

*contact SoftSwitching for availability

