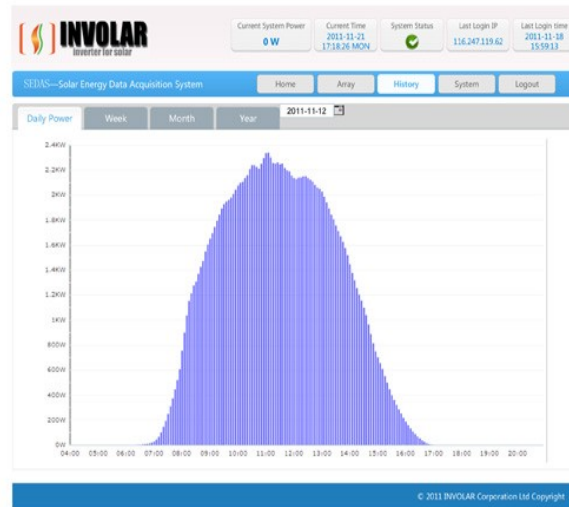


eGate - North America



- Communications Interface with **SEDAS** web
- Web-based online monitoring per-module
- Active anti-islanding
- Over/under voltage protection
- Over/under frequency protection
- Over current protection
- Short circuit protection
- Anti-lightning protection
- Harmonics/Interference suppression
- Expandable for large systems

INVOLAR's new product eGate acts as the power interface (PI) to the utility grid and communications interface with the internet. It is a device installed at the coupling point to the utility grid providing safety functions such as over/under voltage, over/under frequency, active anti-islanding detection, as well as lightning protection and interference filtering from neighboring units.

The real-time performance and energy harvest information from each microinverter, is collected by the eGate and transmitted to INVOLAR's Solar Energy Data Acquisition System (SEDAS) for global, real-time monitoring.

Technical Specifications

Model		PIU4K - North America
Input Data (AC)		
Rated input power		3.68KW
Rated input voltage		240V
Rated input current		15.3A
Rated input frequency		60Hz
Output Data (AC)		
Rated output power		3.68KW
Rated voltage		240V
Rated output current		15.3A
Output voltage range		211V~264V
Output frequency range		59.3Hz~60.5Hz
Total current harmonic distortion		<2%
Efficiency		99.6%
Electrical Interface		
Grid and Array		Double Relay
Grid		Connect to Grid
Array		Connect to Array
Mechanical Data		
Enclosure environmental rating		IP40 (Indoors version) / IP65 (Outdoors version)
Operating temperature range		-20°C~+65°C
Dimensions (WxHxD) in mm		226x343X80mm / 250x350x150mm
Weight		3.47kg / 7kg
Lightning Surge Protection Data *		
Nominal voltage		240V
Maximum AC constant voltage		385V
Nominal discharge current		3000A
Maximum discharge current		6000A
Protection voltage		4kV
Response time		<25ns
Features		
Maximum number of MAC250A connected		16
Over/Under voltage/frequency protection		Yes
Over current protection		Yes
Short circuit protection		Yes
Active anti-islanding		Yes
Warranty		5 Years
Response time for active anti-islanding		2s (adjustable)
Nighttime Power consumption		3W
International Certification		VDE0126 (Europe) - UL1741 (NA) - AS4777 (AU) - G83/1 (UK)