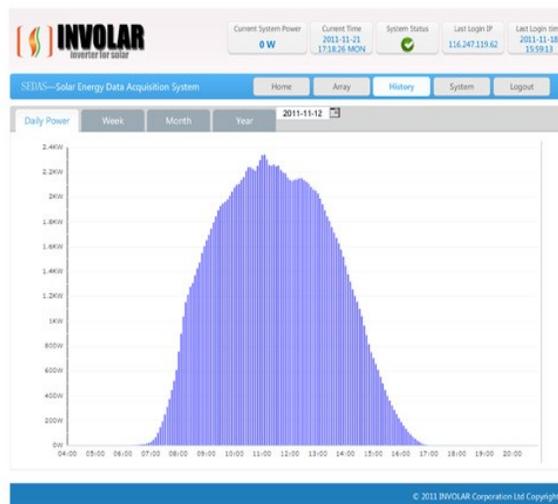


eGate - Europe



- 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 - Europe	
Input Data (AC)	
Rated input power	3.68KW
Rated input voltage	230V
Rated input current	16A
Rated input frequency	50Hz
Output Data (AC)	
Rated output power	3.68KW
Rated voltage	230V
Rated output current	16A
Output voltage range	195V~253V (Adjustable)
Output frequency range	49Hz~51Hz (Adjustable)
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	230V
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)