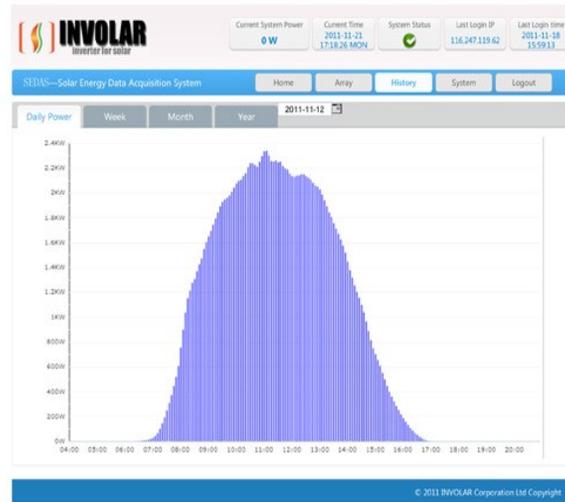


eGate - Europe



- Communications Interface with **SEDAS** web
- Active anti-islanding
- Over/under voltage protection
- Over/under frequency protection
- Over current protection
- Short circuit protection
- Anti-lightning protection
- Harmonics suppression
- Web-based online monitoring per-module
- 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 to provide safety functions such as over/under voltage, over/under frequency, and especially active anti-islanding detection as well as lightning protection and line impedance stabilizing network (LISN). The real-time performance information of energy harvest for all INVOLAR micro-inverter systems can be collected by eGate and transmitted to INVOLAR Solar Energy Data Acquisition System, SEDAS, for global real-time monitoring.

Technical Specifications

Model		PIU4K
Input Data (AC)		
Rated input power	3.68KW	
Rated input voltage	230V	
Rated input current	16A	
Rated input frequency	50Hz/60Hz	
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/ 59Hz~61Hz (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		
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)	