



Pro

Basic Parameters

Integrated Control	Device Integration ¹	Number of Supported Devices	12
		Polling Data Units (PDU)	900
		Power Input [V AC]	230
	Power Output	12V DC	Max: 2A (24W)
		24V DC	Max: 1A (24W)
		Operating Current	250mA @230V AC
	Edge Gateway	Battery Capacity (Usable)[Wh]	144
		Integrated Control	Intel N100 4-core CPU
		Memory (RAM)	4GB
		Local Storage (SSD)	128GB
PLC	Cooling	Fanless Design	
	Control failsafes, additional I/O, temperature measurement		

Communication

Serial Interface	Modbus RTU	Baud Rate [bps]	9600	
		Data bits	8	
		Stop bits	1	
		Parity	None	
	Modbus TCP	Communications Interface	Ethernet WAN	
		System Connectivity	DHCP	
		Managed Network IP Range	192.168.35.XXX	
		Subnet Mask	255.255.255.1	
Embedded Communications	Ethernet	WAN Input	1	
		Ethernet	5-Port 100Mbps Industrial Ethernet Switch	
		GSM (Support Only)	GPRS, LTE	
	Device Cross Compatability	Application	Hybrid inverters	Power meters, power analyzers
			PV grid tie inverters	Temperature sensors
			Generator controllers	Fire suppression systems
Reporting & Analytics	Monitoring Portal	Via Freedom Won Cloud Monitoring Dashboard		
	Cloud Connectivity	Via Polar Monitoring Glacier Edge Gateway 100Mbps ethernet connection to uplink internet (to be supplied by client)		

I/O

Serial Ports	RS-485	4 (isolated)
	Modbus TCP	3
	Digital Inputs	7 x Digital inputs
	Digital Outputs	4 x Relay outputs
	Temperature Probe	4 x PT100 inputs
	12V Output	1
	24V Output	1
	Panel Dimensions - H x W x D [mm]	650x500x250

Physical

Enclosure	Material	Powder Coated Steel
	Weight [kg]	23.2
	Ingress Protection	IP65
	Mounting	Wall mount
	Operating Temperature [°C]	0°C to +40°C
	Storage Temperature [°C]	0°C to +40°C
	Operating Humidity	85% relative humidity
	Antenna Interface	SMA Female
	Power Supply System ²	24V 120W
	Backup Power ²	2 x 98Wh lithium battery (12V)
Warranty	1 Year Warranty	

Notes to Specification Sheet

- Device integration over RS-485 / Ethernet (Modbus TCP) Network Switch (supporting internal and external connections).
- 230VAC 1-PH Power Input (6A)(via screw terminals) Incoming AC Power Isolation Breaker Backup Power via Integrated Lithium Battery.

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