



Standard

Pro

### Basic Parameters

Integrated Control	Device Integration <sup>1</sup>	Number of Supported Devices	4	12	
		Polling Data Units (PDU)	300	900	
		Power Input [V AC]	230		
	Power Output	12V DC	Max: 2A (24W)		
		24V DC	Max: 1A (24W)		
		Operating Current	250mA @230V AC		
		Battery Capacity (Usable) [Wh]	72	144	
	Edge Gateway	Integrated Control	Intel N100 4-core CPU		
		Memory (RAM)	4GB		
		Local Storage (SSD)	128GB		
		Cooling	Fanless Design		
	PLC		N/A		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	255.255.255.0	255.255.255.1	
Embedded Communications	Ethernet	WAN Input	1		
		Ethernet	5-Port 100Mbps Industrial Ethernet Switch		
		GSM (Support Only)	GPRS, LTE		
	Device Cross Compatibility	Application	Hybrid inverters / PV grid tie inverters / Generator controllers / Power meters, power analyzers / Temperature sensors / 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)		

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I/O

Serial Ports	RS-485	4 (isolated)	
	Modbus TCP	3	
	Digital Inputs	3 x Digital inputs	7 x Digital inputs
	Digital Outputs	3 x Relay outputs	4 x Relay outputs
	Temperature Probe	N/A	4 x PT100 inputs
	12V Output	1	
	24V Output	N/A	1
	Panel Dimensions - H x W x D [mm]	650x400x200	650x500x250

Physical

Enclosure	Material	Powder Coated Steel	
	Weight [kg]	20.1	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 <sup>2</sup>	12V 60W	24V 120W
	Backup Power <sup>2</sup>	1 x 98Wh lithium battery (12V)	2 x 98Wh lithium battery (12V)

Warranty

	1 Year Warranty	
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Notes to Specification Sheet

1. Device integration over RS-485 / Ethernet (Modbus TCP) Network Switch (supporting internal and external connections).
2. 230VAC 1-PH Power Input (6A)(via screw terminals) Incoming AC Power Isolation Breaker Backup Power via Integrated Lithium Battery.

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