



Standard



Pro

Basic Parameters

Integrated Control	Device Integration ¹	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)		

DISTRIBUTORS AND RESELLERS

Contact your nearest Accredited Freedom Won Distributor or Reseller Installer for further sales and technical support.

Plug into The Current Future

www.freedomwon.co.za



Standard



Pro

I/O			Standard	Pro
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 ²		12V 60W	24V 120W
	Backup Power ²		1 x 98Wh lithium battery (12V)	2 x 98Wh lithium battery (12V)
Warranty			1 Year Warranty	

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.

DISTRIBUTORS AND RESELLERS

Contact your nearest Accredited Freedom Won Distributor or Reseller Installer for further sales and technical support.

Plug into The Current Future

www.freedomwon.co.za