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QSP Kit 200

Independent Solar Power Solution with Complete Connectivity and Remote Monitoring Features

QSP Kit 200 is an all-in-one solar power solution designed to serve as the primary power source for mission critical communication, control and surveillance equipment.

Main Features

- Complete off-grid primary power solution
- Up to 200 Watts continuous power, 30 hours backup time
- 7 port Gigabit passive POE switch
- Grid input power port (AC adapter not included)
- Selectable 24v/48v POE power/Auxiliary DC port
- Top of pole solar panel mounting kit
- Ground mount battery and controls enclosure
- Advanced high performance AGM batteries
- 5 years battery float life
- Manageable MPPT charge controller
- Thermostatically controlled ventilation

Main Applications

- Wireless base stations, end nodes and repeater sites
- Independent surveillance camera poles
- Utility power, water and gas control systems
- Off-grid patrol posts
- Remote sensing and SCADA
- Remote weather stations





System Description

QSP Kit 200 outdoor power systems is designed for applications that require a primary off-grid power source to run various equipment. The vented weatherproof enclosures have generous space available inside for mounting customer equipment. A 19" 1U rackmount feature is integral to the enclosure as are multiple DIN Rail mounts.

Enclosure is hinged and gasket sealed with locking latches for security. The latches can be locked using a standard customer supplied padlock.

The enclosure can be mounted to a wall or pole with the included mounting bracket system. Poles up to 11" diameter can be accommodated.

The high quality solar panels have a 25 year power output guarantee. The panel can be mounted to a pole or wall with the included sideof-pole mounting system.

The 48V battery systems feature a state-of-theart manageable, temp compensated, MPPT charge controller with integrated monitoring/control and 7 port gigabit PoE switch.

The outputs are 24VDC/48VDC selectable via the web interface or SNMP.

Enclosures have three cable gland ports for CAT5 cable, antenna cables/connectors or other cabling. The enclosure include a thermostatically controlled fan which turns on automatically when the temperature exceeds 45°C.

Batteries are a Non-spillable Valve Regulated Sealed Lead Acid Advance Glass Matt (AGM) type which have excellent temperature and deep discharge performance. Expected battery life exceeds 5 years.

The systems come with all cabling required to connect the batteries to the controller and 20' outdoor rated cable to connect the solar panels to the controller.

Remotely accessible Port Power Controls Page

ort Conti	rols						
Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Aux
Cycle 24V V	Cycle 24V V	Cycle 24V V	Cycle 48V T	Cycle 48V V	Cycle 48V V	OFF Cycle OFF •	Cycle 24V
Battery Voltage		50.2V				Disable Co	onfirm
Battery Current		1.9A					
Input Voltage		62.3V	Load Vol	tage Setting:	24V/48V Enabled		
Input Current		1.9A	Controller Time:		08/16/2016 12:26:37		
Load Watts		12W	Uptime:		0 days 01:00:25		
Battery Temp		77.3F	MPPT Version:		1.700		
Battery Status		BULK	Version:		2.3.6		

Specifications

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System General Specifications				
Rated Power Generation	200 W			
Reserve Time @ Rated Power	24 hrs			
POE Output Voltage (DC)	24/48V Selectable			
Secondary Volts Out (DC)	24/48V Selectable			
12V Battery Capacity (Amp Hrs)	960 Ah			
Solar Panel / Panel Mount				
Solar Panel Size (4 panels)	2.03m x 3.35 m (80" x 132")			
Pole Mount Type	Top of pole mounted			
Pole Diameter	2" to 4.5"			
Pole Attach	Stainless Steel Hose Clamp (5/16" driver)			
Controller/POE Switch/Remote				
Controller Type	Manageable Temp Compensated MPPT with 7Gigabit PoE ports			
Overcharge Protection	59.2V			
Over-discharge protection	45.8V to 47.8 – settable in web interface			
Over-discharge recovery volts	48.1V to 49.2V – settable in web interface			
Controller Self Consumption	3.5W Typical			
Typical Controller Efficiency	96% (68VDC Input, 10A Load, 25C)			
PoE Switch	Qty 7 RJ45, 10/100/1000MB Gigabit Ethernet, Layer 2, Auto Crossover			
PoE Output Voltage	48VDC or 24VDC or OFF – settable in web interface			
Auxiliary DC Output Voltage	24VDC or 48VDC – settable in web interface			
Auxiliary DC Output Current	2.25A Maximum Continuous, 3A Max peak			
Auxiliary DC Output Controls	Temperature, Voltage, Time – settable in web interface			
Fuse Type	58V 20A Fast Blo Automotive Blade Type (Littlefuse 142.6185.5206)			
Measurement Accuracy (V / I / T)	+/- 0.1V , +/- 0.1A , +/- 1 Deg C			
Port Surge Protection	IEC 61000-4-2 (ESD) 15kV (air), 15kV (contact) IEC 61000-4-4 (EFT) 40A (5/50ns) IEC 61000-4-5 (Lightning) 25A (8/20μs)			
Maximum Power Output	222W Total (150W @ 48VDC and 72W @ 24VDC) from all output ports (including Aux Output), Auto Shutdown and Autorecovery from Fail			
Data-Logger	FIFO, 15,000 data sets, Programmable log interval			
MTBF	>100,000 Hrs			
Certifications	FCC/CE EN55022 (EMC) ; CE EN55024 (EMC); CE/UL EN60950-1 (LVD)			
Battery				
Battery Type	Maintenance Free Non-Spillable Valve Regulated Sealed Lead Acid AGM			
Battery Float Life	5 years			
Dimensions (Each of 8 batteries)	228 x 139 x 235mm (9 x 5.5 x 9.24")			
Enclosure				
Enclosure Type	2" to 11" Pole/Wall Mount, Powder Coat Steel			
Enclosure External Size	612.5 x 612.5 x 445.6 mm (24.1 x 24.1 x 17.5")			
Enclosure Internal Size	608 x 608 x 409.5 mm (23.9 x 23.9 x 16.1")			
Internal Mount Features	1U 19" Rackmount (13.9" depth), 4" Long Din Rails(4), Din Rail Mounts (4)			
Mechanical / Environmental				
Operating Temperature	-40°C to +60°C (-22°F to 140°F)			
System Weight (no batteries)	221 kg (488 lb)			
Battery Weight	247 kg (544 lb)			
Wind Speed Rating	145 km/h (90 Miles/H)			
Warranty	2 Years			

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