

# INSTANT SOLAR



## Product that gives you free hybrid solar & wind electricity to telecom site.

Telecom towers may operate in areas with an unreliable grid supply or sites run by diesel generators where no grid connection. As from our engineering experience working with telecom sites we have built a perfect power generation solution for every telecom company.

**Instant Solar SOLCOM** is designed with more than 10 years of engineering experience in powering remote off – grid telecom sites and can cover both needs. Our solutions provide power generation from wind and solar source. In unreliable grid areas system can be added to provide free green power with 0 % of carbon emissions and serve as reliable power source 24 / 7 with energy storage backup. In areas with no grid supply we provide a solution that can reduce diesel consumption or completely substitute diesel generator.

We chose only best proven components for building our solutions based on our engineering experience. Instant Solar Hybrid System is designed as modular (- 48V 19" rack) units that perfectly fit every existing or new telecom site. Units are designed with all components already inbuilt in the system so it provides an easy plug & play modular solution that can expand to desired range of power needed.



### Features:

- - 48V DC.
- 19" rack unit.
- MPPT solar charger.
- Wind turbine input.
- Current breakers and overvoltage protection.
- Remote access and system monitoring.
- Anti theft alarm for panels and system.
- Power generation is remotely monitored through specially designed software.
- Digital and graphical representation of parameters.
- Deep discharge battery protection and control.
- Backup generator auto start.
- Outdoor cabinet.
- 19" rack LiFePO4 battery pack.

## Technical Data

<b>Instant Solar SOLCOM</b>	
<b>Power Input</b>	
Max PV Array Wattage	3200 W
Max MPPT DC Voltage	150 VDC
Max MPPT Output Current	60 A
MPPT Efficiency	> 96 %
AC Charger	2400 W
Wind turbine input	3000 W
<b>DC Power Output</b>	
Nominal DC Voltage	- 48 VDC
Continuous Output Power	3000 W
Maximum Output Current	63 A
Battery Voltage Range	42 – 56 VDC
Battery type support	Lead – acid, GEL, AGM, LiFePO4
<b>General Data</b>	
Protection	Short - circuit, Output Over load
Consumption (night)	< 5 W
Cooling Concept	Fan
Enclosure Type	IP 20
Operating Temperature	0°C ~ 50°C
Operating Humidity	0 - 90 % RH (No condensing)
Weight / Dimension	23kg / 450 x 470 x 270 mm
Interfaces	RS 485 / RS 232 / LAN
Monitoring and control software	Windows operated
Certification	EN61000-6-4: 2007 EN61000-6-1: 2007 EN61000-3-2: 2006+A1+A2: 2009 EN61000-3-3: 2007
Warranty	2 years



Our recommendation is to use **SOLCOM** in combination with Instant Solar **LiFePO4 Battery Pack** for best performance and longer lifetime compared to Lead Acid or AGM batteries. Also as an option we offer Instant Solar **SolarCloud 3G** remote monitoring device in case you don't have access to internet connection. For all options please feel free to ask our engineering support to make your system the most efficient and do a custom approach and calculations according to your needs.

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*The Sky's the limit*