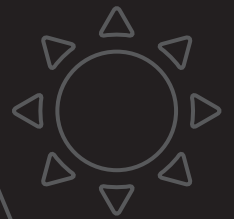




**WINNER**<sup>®</sup>  
BATTERY  
SWITCH FOR SUCCESS  
**ORION**

Energy Storage & Management Systems

Get the most  
out of the Sun!



SUPERIOR TECHNOLOGY | EFFICIENCY | RELIABILITY



# Total Energy Solutions



## WINNER ORION Energy Storage Battery Unit

*Your ultimate energy storage system!*

- Fully optimized PV energy storage
- Robust and durable stainless steel housing / attractive state of the art design
- Simple handling & operation
- Lifetime maintenance-free batteries
- Fully compatible with almost any storage inverter
- Integrated fuse box for battery/inverter isolation
- Uninterrupted power service during grid outages
- Excellent price/performance ratio



### SPECIFICATIONS

<b>Type</b>	Energy Storage System
<b>Use</b>	Renewable energy storage for off-grid, on-grid and UPS operation
<b>Compatible Battery Types</b>	WINNER VRLA Series (AGM, GEL, OPzV)
<b>Battery System Voltage</b>	48 V
<b>Storage Capacity</b>	4,8 – 14,4 kWh
<b>Cycle Resistance</b>	Up to 2500 cycles @ 50% D.O.D
<b>Parallel Units Connection Ability</b>	Yes
<b>IP Protection</b>	IP20
<b>Standards</b>	IEC 60896-21, IEC 61427, EN 50272-2

MODEL	V.R.L.A TECHNOLOGY	WINNER BATTERY SERIES	NOMINAL VOLTAGE (V)	NOMINAL STORAGE CAPACITY C10 (kWh)	CYCLES @ 50% D.O.D	DESIGNED LIFETIME BACK-UP USE (YEARS)	DESIGNED LIFETIME CYCLING USE (YEARS)
WINNER ORION 240	OPzV GEL	WINNER HELIOS OPzV	240	12	2500	15	10
WINNER ORION 48	OPzV GEL	WINNER HELIOS OPzV	48	4,8 - 14,4	2500	15	10
	GEL DEEP CYCLE - LONG LIFE	WINNER HERCULES	48	4,8 - 9,6	1400	12+	6
	GEL DEEP CYCLE	WINNER MERCURY	48	4,8 - 12,5	1100	Up to 10	5
	AGM DEEP CYCLE	WINNER PROTEUS	48	4,8 - 12,5	850	Up to 10	4



# WINNER ORION Smart Home Energy Manager

Take energy management to a new level!

- Complete battery storage option
- No need for separate solar inverter or DC regulator
- Powerful and easily programmable software for remote access
- Integrated AC & DC circuit protection
- Very simple and straightforward installation
- Programmable for power/time/energy grid feed-in



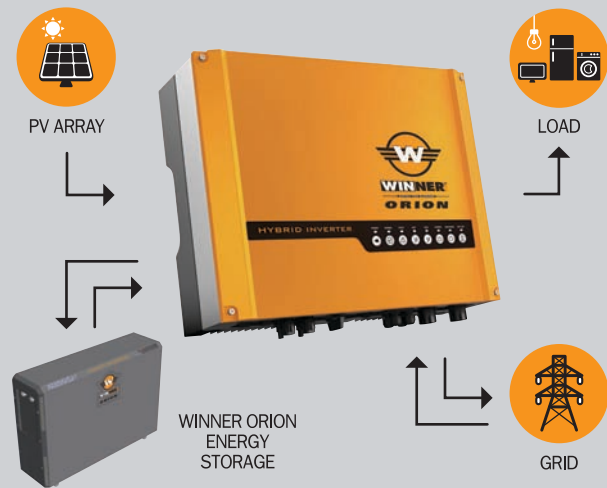
## SPECIFICATIONS

<b>Type</b>	Home Energy Manager and Interactive Solar inverter
<b>Use</b>	Grid feed-in and off-grid power, self-use, UPS
<b>D.C Input Power</b>	5.0 KWp PV/Wind
<b>M.P.P.T Voltage</b>	240 – 400V D.C
<b>A.C Output Power</b>	5.0 KW, 1 phase
<b>Overload Capacity</b>	110% (5mins)
<b>A.C Input</b>	Dual (Grid + Diesel Generator)
<b>Pass Through Power</b>	5.0 KW
<b>Programmable Grid Feed-in</b>	Yes
<b>Off-grid Mode Battery Charging</b>	Yes
<b>Storage System</b>	WINNER ORION Energy Storage Battery Unit – 240
<b>Battery System Voltage</b>	240 V
<b>Indicators</b>	4-line backlight LCD display
<b>Connectivity</b>	RS232, Ethernet

# WINNER ORION All-in-One Hybrid Inverter

Manage energy with your fingertips!

- Designed for both indoor and outdoor use
- User configurable grid-tied or grid-independent operation
- Compatible with WINNER battery units
- Integrated charge controller and inverter
- Fanless operation, small footprint
- Remote monitoring via desktop/laptop/tablet/smartphone



## SPECIFICATIONS

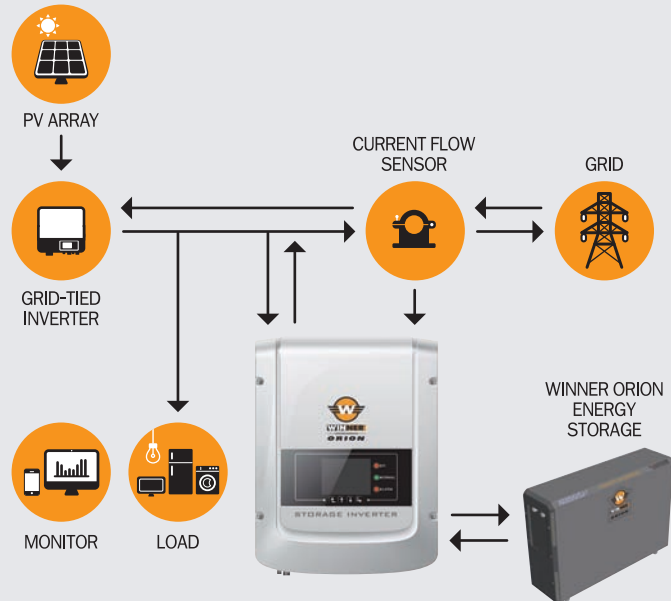
<b>Type</b>	Bi-directional hybrid energy storage inverter
<b>Use</b>	UPS, self-use grid feed-in and off-grid power
<b>PV Input Power</b>	5.4 KWp
<b>M.P.P.T Voltage</b>	125 – 550V D.C
<b>M.P.P.T Inputs</b>	2
<b>A.C Output Power</b>	4.6 KW, 1 phase
<b>Overload Capacity</b>	150% (10sec)
<b>Programmable Grid Feed-in</b>	No
<b>Off-grid Mode Battery Charging</b>	Yes
<b>Storage System</b>	WINNER ORION Energy Storage Battery Unit – 48
<b>Battery System Voltage</b>	48 V
<b>Indicators</b>	LED lights & APP
<b>Connectivity</b>	USB2.0, WiFi



## WINNER ORION Storage Inverter

*Win more  
from the Sun!*

- Support and ensure safe operation of critical domestic loads
- Designed for both indoor and outdoor use
- Flexible battery management, maximum self-consumption revenue
- Compatible with all grid-tied renewable systems
- Compatible to WINNER battery units
- User configurable grid-tied or grid-independent operation
- Grid monitoring via split core Current Sensor. No need to upgrade or disconnect distribution system



### SPECIFICATIONS

<b>Type</b>	Energy Storage inverter
<b>Use</b>	UPS, self-consumption, grid feed-in
<b>A.C Output Power</b>	3 kVA, 1 phase
<b>Overload Capacity</b>	150% (10sec), 120% (30sec)
<b>Programmable Grid Feed-in</b>	Yes
<b>Storage System</b>	WINNER ORION Energy Storage Battery Unit – 48
<b>Battery System Voltage</b>	48 V
<b>Indicators</b>	LED light and flow diagram
<b>Connectivity</b>	Wi-Fi, RS485, CAN2.0

## WINNER ORION Off-grid Inverter/ Charge Controller

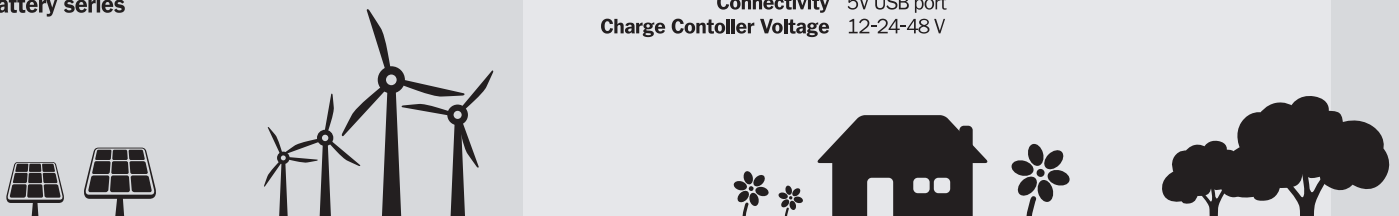
*Sun power  
in your hands!*

- Pure sine wave output inverter
- Durable aluminum housing, dual cooling fan
- Over/under input voltage protection
- Output short circuit and over load/temperature protection
- Low battery and shut down alarm
- PWM or MPPT charge controller versions
- Compatible to WINNER VRLA & FLA battery series



### SPECIFICATIONS

<b>Type</b>	Pure Sine Wave Inverter & PWM or MPPT Charge Controller
<b>Use</b>	Off-grid households, Marine, Recreational Vehicles, Commercial Trucks, Portable Equipment
<b>A.C Output Power</b>	230V/300-3000W, 1 phase
<b>Surge Power</b>	200%
<b>Efficiency</b>	90%
<b>Compatible Battery Types</b>	WINNER VRLA & FLA Series
<b>Battery System Voltage</b>	12-24-48 V
<b>Protection Function</b>	Overload, Short Circuit, Reverse Polarity, Over/Low Voltage, Over Temperature
<b>IP Protection</b>	IP20
<b>Connectivity</b>	5V USB port
<b>Charge Controller Voltage</b>	12-24-48 V





# Let the Sun power your needs!

Whatever your needs in energy storage, WINNER Energy Storage Solutions are designed to fulfill your most demanding requirements and maximize your return on investment.

Whether on/off/smart-grid, hybrid or completely remote system, WINNER renewable energy storage systems provide you with turn-key and customized solutions while increasing your flexibility and independency.

With consistency and reliability, WINNER offers certified and tested systems which comply with European and national performance and safety directives.

WINNER battery unit systems, smart controllers and inverter kits, will help you to:

- collect and store**  
your own green solar and wind energy
- distribute and consume**  
efficiently
- optimize**  
your energy costs
- increase**  
your safety and secure your residential critical loads during grid-power outages
- give power**  
even at remote off-grid places



**Excellent price**



**Guaranteed safety**



**Flexible expansion**



**Simple installation**



**Easy retrofitting**

# Total Energy Solutions



## Energy Storage & Distribution Solutions

WINNER is the global leader in energy storage and distribution solutions. With more than 800 product codes and presence in 40 countries, WINNER serves any application in Solar, Stationary, Starting and Traction fields since 1973.

WINNER batteries are known not only for their superior quality and unparalleled reliability but also for the capability to cover a wide range of applications under the "Total Solutions System". This unique system represents a 360° approach to meet any energy storage and distribution challenge.

### WINNER in numbers

<b>38</b>	Product Series	<b>1.450</b>	Partners Worldwide
<b>800+</b>	Product Codes	<b>40</b>	Countries
<b>80+</b>	Applications	<b>42</b>	Years of Experience
<b>13.600</b>	Projects	<b>100+</b>	Employees in Europe
<b>2+</b>	Million kWh Total Capacity	<b>130+</b>	Car Brands
<b>1.400+</b>	Solar & Wind Energy Generating Sites	<b>160+</b>	Motorcycle Brands
		<b>3</b>	Quality Assurance Certifications

[info@winnerbattery.com](mailto:info@winnerbattery.com) | [www.winnerbattery.com](http://www.winnerbattery.com)



#### Germany

Charlottenstrasse 75,  
D-40210, Dusseldorf  
Tel: + 49 02 11 17 8620

#### Greece

17th km National Road  
Athens-Corinth, GR-19300,  
Aspropyrgos, Athens  
Tel: +30 210 3474 444

#### United Kingdom

Batchworth House, Batchworth Place,  
Church Street, Rickmansworth,  
Herts, WD3 1JE, UK  
Tel: +44 20 37 69 3084