

## Estia Hybrid Solar UPS

3 Phase In - 3 Phase Out / 10-20 kVA

Get your energy from the sun with Inform's new generation HYBRID UPS.

UPS + OFF-GRID INVERTER + ON-GRID INVERTER + HYBRID INVERTER + ENERGY STORAGE

### UPS Operation Mode

The energy needed by the load is primarily provided from the grid. In case of failure or failure of the grid, the energy needed is supplied from the battery group inside the Estia Hybrid.

### Off-Grid Inverter Operation Mode

The energy needed by the load is primarily provided from the sun. After sunset or when the panels fail to produce, the energy needed continues to be provided from the battery pack.

### On-Grid Inverter Operation Mode

The energy needed by the load is provided primarily from the sun and is supplied from the grid where the solar energy is not sufficient. If the load is low, the energy generated from the solar panels is transferred to the grid.

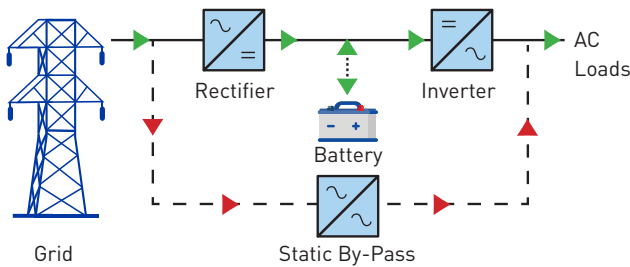
### Hybrid Inverter Operation Mode

The energy needed by the load is provided primarily from the sun and is supplied from the grid where the solar energy is not sufficient. In case of failure or failure of the grid, the energy needed is supplied from the battery group in the Estia Hybrid.

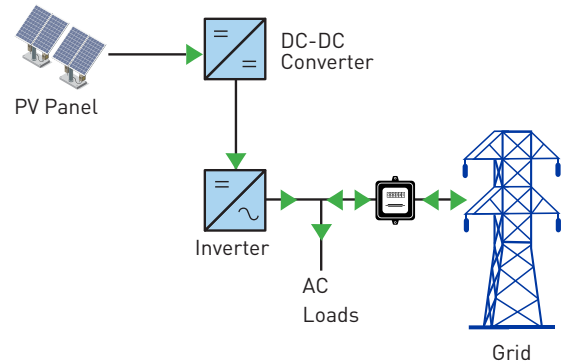
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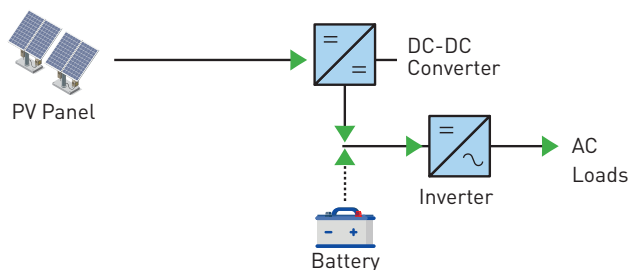
### UPS Operation Mode



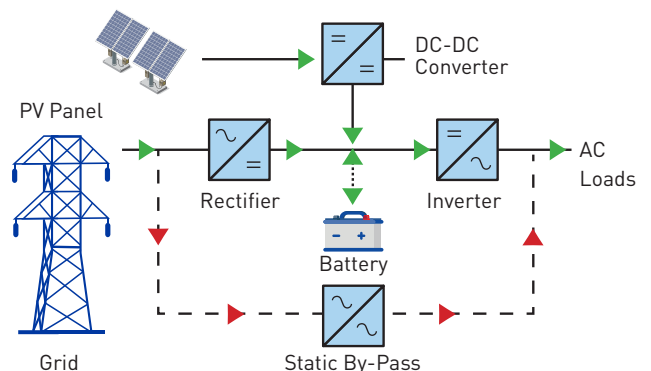
### On-Grid Inverter Operation Mode



### Off-Grid Inverter Operation Mode



### Hybrid Inverter Operation Mode



# Estia Hybrid Solar UPS

## TECHNICAL SPECIFICATIONS

MODEL		Estia Hybrid 33010		Estia Hybrid 33015		Estia Hybrid 33020			
POWER		Output Power		10 KVA / 9 kW		15 KVA / 13,5 kW		20 KVA / 18 kW	
UPS OPERATION (Grid- Battery)									
GRID INPUT (AC)	Input Voltage - Phase number		380/400/415 VAC / 3Ph+N+PE						
	Input Voltage Range		195V-260V at 100% load, 145V-260V at 50% load						
	Input Frequency Tolerance		45-65 Hz						
LOAD OUTPUT (AC)	Output Voltage - Phase number		380/400/415 VAC / 3Ph+N+PE						
	Output Frequency		50 / 60 Hz						
	Overload		10min at 125% load, 1min at 150% load						
STATIC BY-PASS	Static Bypass Voltage Tolerance		380/400/415 VAC (Adjustable from LCD front panel -15% +12%)						
	Static Bypass Frequency Tolerance		47 Hz - 53 Hz (Adjustable)						
BATTERY & CHARGE CONTROL	Battery Type		Maintenance free type (VRLA), Lithium Iron Phosphate / Gel / Lead Acid						
	Nominal Battery Voltage		192-384 VDC (16-32pcs 12V)		288-384 VDC (24-32pcs 12V)		384 VDC (32pcs 12V)		
	Max. Battery Charge Current		5A						
HYBRID OPERATION (Grid-Battery-PV)									
PV INPUT (DC)	Max. PV Input Power		9000 W						
	Max. PV Voltage/MPPT Voltage range		600 VDC / 400-600 VDC						
	Min. PV Operation Voltage		200 VDC						
	MPPT Qty / Max. MPPT Input Current		1 / 24A						
GRID OUTPUT (AC)	Grid Output Voltage – Phase number		380/400/415 VAC / 3Ph+N+PE						
GRID INPUT (AC)	Grid Input Voltage Range		195V-260V at 100% load, 145V-260V at 50% load						
	Automatic Operation Voltage		195-260 VAC						
BATTERY & CHARGE CONTROL	Nominal Battery Voltage		192-384 VDC (16-32pcs 12V)		288-384 VDC (24-32pcs 12V)		384 VDC (32pcs 12V)		
	Max. Battery Charge Current		5A						
OFF-GRID OPERATION (Battery-PV)									
PV INPUT (DC)	Max. PV Input Power		9000 W						
	Automatic Operation Voltage (Cold Start)		166 VDC		250 VDC		333 VDC		
	Max. PV Voltage/MPPT Voltage range		600 VDC / 400-600 VDC						
	Min. PV Operation Voltage		200 VDC						
	MPPT Qty / Max. MPPT Input Current		1 / 24A						
BATTERY & CHARGE CONTROL	Nominal Battery Voltage		192-384 VDC (16-32pcs 12V)		288-384 VDC (24-32pcs 12V)		384 VDC (32pcs 12V)		
	Max. Battery Charge Current		5A						
LOAD OUTPUT (AC)	Output Voltage – Phase Number		380/400/415 VAC / 3Ph+N+PE						
	Output Frequency		50 / 60 Hz						
ON-GRID OPERATION (Grid-PV)									
PV INPUT (DC)	Max. PV Input Power		9000 W						
	Max. PV Voltage/MPPT Voltage range		600 VDC / 400-600 VDC						
	Min. PV Operation Voltage		200 VDC						
	MPPT Qty / Max. MPPT Input Current		1 / 24A						
GRID OUTPUT (AC)	Grid Output Voltage – Phase number		380/400/415 VAC / 3Ph+N+PE						
GENERAL DATA									
EURO EFFICIENCY	UPS Operation / Solar Operation		93% / 96%						
DISPLAY	Screen		4x16 LCD, LED Display						
COMMUNICATION	Interface / Other		RS-232, USB, Emergency Power Off button (EPO), GENSET, STS SYNC						
	Optional		RS485, Dry Contact, SNMP						
ENVIRONMENT	Storage / Operating Temperature Range		-25°C + 55°C / 0°C + 40°C						
	Humidity / Protection Class		0-95% (non-condensing) / IP20						
	Operating Altitude / Noise		0~1000 m / < 55dBA (Tower)						
	Cooling / Topology		Forced Convection / Transformer-less						
PHYSICAL FEATURES	Dimensions (WxDxH) (mm) (Tower)		389x800x1170						
	Weight (w/o Battery) (Tower)		89 kg		98 kg		102 kg		
	Installation Type		Floor, Wheeled (Tower)						
STANDARDS	Safety / EMC / Certification		IEC/EN 62040-1, IEC/EN 62040-2, IEC/EN 62040-3						

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