



Plug and play: Installation by 2-3 people in 24/48h
(Solar modules not included)



Factory-configured and tested

APPLICATIONS

- Lighting for public areas and roads
- Minigrids for villages and neighborhoods
- Water treatment and Drinking water systems
- Small and medium size industries
- Hotels, campsites, ecotourism centers
- Health centers and schools
- Telecommunication antennas

Electronics by:



Batteries by:



TECHNICAL SPECIFICATIONS

Energy Station	EG20T00	EG30T00	EG40T00	EG60T00	EG80T00	EG90T00	EG120T00
General characteristics							
Dimensions LxWxH (cm) (Solar modules not included)	250 x 600 x 250				250 x 1200 x 250		
Approximate weight (kg)	7500	9500	11500	15000	20500	22000	28500
Optimal temperature range (°C)	.+15 - +30						
Temperature range (°C)	.-20 - +45						
Exterior solar barrier	Optional						
Interior thermal insulation	Optional Panel Sandwich 35mm						
Air Ventilation / Air Conditioning (A/C)	Air Ventilation included (Optional Split unit 2000 kcal)						
PV Inputs	6	8	12	16	24	24	36
Alternative current inputs	1						
Consumption outputs	2						
Alternative current transfer relay	YES						
3G Communication	YES (SIM card not included)						
PV input electrical characteristics							
Maximum PV Power (kWp)	20	30	40	60	80	90	120
Number of PV modules (250Wp)	80	120	160	240	320	360	480
Maximum input voltage (Voc)	600 / 900						
Voltage range MPPT (Vmpp)	250 - 500 / 500-750						
Energy storage characteristics							
Total capacity / (Available Energy with DoD 60%) @ 20°C in C1 (kWh)	50 / 30	79 / 47	100 / 60	158 / 96	200 / 120	237 / 141	300 / 188
Total capacity / (Available Energy with DoD 60%) @ 20°C in C5 (kWh)	85 / 51	130 / 78	170 / 102	260 / 156	340 / 204	390 / 234	510 / 306
Total capacity / (Available Energy with DoD 60%) @ 20°C in C10 (kWh)	97 / 58	151 / 91	194 / 118	302 / 182	388 / 232	453 / 273	582 / 349
Charge/Discharge Cycles @ DoD 60%, 20°C/30°C (estimated by the manufacturer)	3000 / 1500						
Alternative Current input characteristics							
Alternative Current input type	Genset / grid/ others						
Voltage Range (V)	317 - 450						
Connection type	3 F + N						
Maximum Current (A)	150		300			450	
Frequency Range (Hz)	45-65						
Consumption outputs electrical characteristics							
Continuous AC max power @ 25°C (kVA)	10	15	21	30	42	45	63
30 min AC power @ 25°C (kVA)	12	18	24	36	48	54	72
5 sec AC max power @ 25°C (kVA)	31	45	63	90	126	135	189
Nominal Voltage (V)	400/230 ± 2%						
Connection type	3 F + N						
Frequency (Hz)	50 ± 1%						

INTERNATIONAL STANDARDS

Directive EMC 2004/108/CE : EN 61000-6-1, EN 61000-6-3, EN 55014, EN 55022, EN 61000-3-2, 62040-2
 Low Voltage Directive : 2006/95/CE : EN 50178, EN 62040-1, EN 60950-1, EN62109-1

Solar modules IEC 61215, IEC 61730
 Batteries IEC 61427, IEC 60896-21/22, EN 50272-2

Container ISO 668:2013

The Data may change without notice

Electronics by:

Batteries by:



TECHNICAL SPECIFICATIONS

Energy Station	EG20T02	EG30T02	EG40T02	EG60T02	EG80T02	EG90T02	EG120T02
General characteristics							
Dimensions LxWxH (cm) (Solar modules not included)	250 x 600 x 250				250 x 1200 x 250		
Approximate weight (kg)	7500	9500	11500	15000	20500	22000	28500
Optimal temperature range (°C)	.+15 - +30						
Temperature range (°C)	.-20 - +45						
Exterior solar barrier	Optional						
Interior thermal insulation	Optional Panel Sandwich 35mm						
Air Ventilation / Air Conditioning (A/C)	Air Ventilation included (Optional Split unit 2000 kcal)						
PV Inputs	8	12	16	24	32	36	48
Alternative current inputs	1						
Consumption outputs	2						
Alternative current transfer relay	YES						
3G Communication	YES (SIM card not included)						
PV input electrical characteristics							
Maximum PV Power (kWp)	20	30	40	60	80	90	120
Number of PV modules (250Wp)	80	120	160	240	320	360	480
Maximum input voltage (Voc)	600						
Voltage range MPPT (Vmpp)	250 - 500						
Energy storage characteristics							
Total capacity / (Available Energy with DoD 60%) @ 20°C in C1 (kWh)	50 / 30	79 / 47	100 / 60	158 / 96	200 / 120	237 / 141	300 / 188
Total capacity / (Available Energy with DoD 60%) @ 20°C in C5 (kWh)	85 / 51	130 / 78	170 / 102	260 / 156	340 / 204	390 / 234	510 / 306
Total capacity / (Available Energy with DoD 60%) @ 20°C in C10 (kWh)	97 / 58	151 / 91	194 / 118	302 / 182	388 / 232	453 / 273	582 / 349
Charge/Discharge Cycles @ DoD 60%, 20°C/30°C (estimated by the manufacturer)	3000 / 1500						
Alternative Current input characteristics							
Alternative Current input type	Genset / grid/ others						
Voltage Range (V)	317 - 450						
Connection type	3 F + N						
Maximum Current (A)	180		360		540		
Frequency Range (Hz)	45-65						
Consumption outputs electrical characteristics							
Continuous AC max power @ 25°C (kVA)	16	16	20	33	40	49	60
30 min AC power @ 25°C (kVA)	21	21	25	42	51	63	76
60 sec AC max power @ 25°C (kVA)	28	28	36	57	72	85	108
Nominal Voltage (V)	400/230 ± 2%						
Connection type	3 F + N						
Frequency (Hz)	50						

INTERNATIONAL STANDARDS

Directive EMC 2004/108/CE : EN 61000-6-1, EN 61000-6-3, EN 55014, EN 55022, EN 61000-3-2, 62040-2
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