



TECHNICAL SPECIFICATIONS

This is a new compact system of inverter, controller, and lithium batteries with protections (totally wired and in a single module) with a modernist design that accompanied with photovoltaic panel designed for the supply of electrical energy in isolated areas.

SOLAR KITS CODE	CSS-01	CSS-02	CSS-03	CSS-04
Maximum Power per Day	3.000Wh	4.200Wh	8.400Wh	12.600Wh
Number of Solar Panels	2 x 270w	3 x 270w	6x270w	9x270w
Number of Battery	1 (BATLI30-25,6)	2 (BATLI18-51,2)	3 (BATLI18-51,2)	4 (BATLI18-51,2)
Battery Voltage	25,6V	51,2V	51,2V	51,2V
Total Energy Stored	768Wh	1.843Wh	2.765Wh	3.686Wh
Model of charge Controller	(LS2024EU)	Integrated in the inverter	Integrated in the inverter	Integrated in the inverter
Maximum Current of Charge Controller	20A	80A	80A	80A
Model of the inverter	(STI 500-24V)	HF4850S60	HF4850S60	HF4850S60
Nominal Power of Inverter	500W	5.000W	5.000W	5.000W
Output AC	220 - 240Vac 50 Hz	220 -240Vac 50 Hz	220 - 240Vac 50 Hz	220 - 240Vac 50 Hz
Size of Kit (mm)	550 x 404 x 165	620 x 970 x 190	620 x 970 x 190	620 x 970 x 190
Weight in (kg)	14,9	32,7	41	48
Warranty	5 years	5 years	5 years	5 years

**Please feel free to contact Prof. Michelet Montina for more information by email:
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KIT designed for the supply of electrical energy in isolated areas of the grid by means of photovoltaic energy against interruptions of the electrical supply. The SAE kit consists of 270W photovoltaic panels and energy control, management and storage cabinets using lithium ferrophosphate batteries in a 4U rack format. Inverter is supplied for each power and voltage outputs to 220/230Vac or 380/400Vac (see the characteristics in each power), it has built-in ventilation.

	SOLAR KITS CODE	K-SAE0010F	K-SAE0015F	K-SAE0020F	K-SAE0030F
Solar panels	Nominal power	3 kW	5 kW	5kW	5 kW
	Number of panels	12 x 270W	16 x 270W	16 x 270W	16 x 270W
	Total power of panels	3,24 kW	4,32 kW	4,32 kW	4,32 kW
	Minimum power per day	6,55 kWh	8,73 kW	8,73 kW	8,73 kW
	Maximum power per day	16,67 kWh	22,25 kWh	22,25 kWh	22,25 kWh
	Total power per year	6,06 MWh	8,08 MWh	8,08 MWh	8,08 MWh
Energy storage	Voltage of the battery	51,2 Vdc	51,2 Vdc	51,2 Vdc	51,2 Vdc
	Charge of the battery	100Ah	100Ah	100Ah	100Ah
	Number of Batteries	1 x sae-0010	1 x sae-0015	1 x sae-0020	1 x sae-0031
	Total Energy Stored	10,24 kWh	15,36 kWh	20,48 kWh	30,72 kWh
	Total useful energy	9,22 kWh	13,82 kWh	18,43 kWh	27,65 kWh
Inverter / Controller	Number of inverter + charge controller	1 x HF4830S60	1 x HF4850S80	1 x HF4850S80	1 x HF4850S80
	Maximum power of inverter	6 kVA	10 kVA	10 kVA	10 kVA
	Nominal power of inverter	3 kVA	5 kVA	5 kVA	5 kVA
	Output voltage	230 Vac	230 Vac	230 Vac	230 Vac
	Inverter regular load intensity	60 ADC	80 ADC	80 ADC	80 ADC
	Inverter Input Intensity	60 AAC	60 AAC	60 AAC	60 AAC
	Size of the Kit	600 x 600 x 1388	600 x 600 x 1610	600 x 600 x 1610	600 x 600 x 1610
	Weight (kg)	261	364	476	1.197
	Warranty	10 years	10 years	10 years	10 years

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TECHNICAL SPECIFICATIONS

KIT designed for the supply of electrical energy in isolated areas of the grid by means of photovoltaic energy against interruptions of the electrical supply. The SAE kit consists of 330W photovoltaic panels and energy control, management and storage cabinets using lithium ferrophosphate batteries in a 4U rack format. Inverter is supplied for each power and voltage outputs to 220/230Vac or 380/400Vac (see the characteristics in each power), it has built-in ventilation.

SOLAR KITS CODE		K-SAE0070F	K-SAE0140F	K-SAE0210F
Solar panels	Nominal power	10 kW	20 kW	30 kW
	Number of panels	44 x 330W	88 x 330W	132 x 330W
	Total power of panels	14,52 kW	29,04 kW	43,56 kW
	Minimum power per day	36,30 kWh	72,60 kWh	108,90 kWh
	Maximum power per day	75,50 kWh	151 kWh	226,50kWh
	Total power per year	20,30 MWh	40,60 MWh	60,90 MWh
Energy storage	Voltage of the battery	51,2 Vdc	51,2 Vdc	51,2 Vdc
	Charge of the battery	100Ah	100Ah	100Ah
	Number of Batteries	1 x SAE-0072	2 x SAE-0072	3 x SAE-0072
	Total Energy Stored	71,68 kWh	143,36 kWh	215,04 kWh
	Total useful energy	64,51 kWh	129,02 kWh	193,54 kWh
Inverter / Controller	Number of inverter + charge controller	1 x VP10000	2 x VP10000	3 x VP10000
	Maximum power of inverter	14,85 KVA	29,70 KVA	44,55 KVA
	Nominal power of inverter	10,00 kVA	20,00 kVA	30,00 kVA
	Output voltage	230 Vac (PN) 400 Vac (PP)	230 Vac (PN) 400 Vac (PP)	230 Vac (PN) 400 Vac (PP)
	Inverter regular load intensity	200 ADC	400 ADC	600 ADC
	Inverter Input Intensity	40 AAC	80 AAC	120 AAC
Size of the Kit	Rack	2 x 600 x 600 x 1.610	4 x 600 x 600 x 1.610	6 x 600 x 600 x 1.610
	Inverter	1 x 500 x 67,5 x 622	2 x 500 x 67,5 x 622	3 x 500 x 67,5 x 622
	Weight (kg)	1.892	3.784	5.676
	Warranty	10 years	10 years	10 years

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