



TECHNICAL SPECIFICATIONS

KIT designed for the supply of electrical energy through renewable sources with sufficient storage for autonomous operation. The SAE kit consists of 330W photovoltaic panels and energy control, management and storage cabinets using lithium ferrophosphate batteries in a 4U rack format. It includes inverter for each power and voltage outputs at 220/230Vac or 380/400Vac (see table of characteristics for each power), it has built-in ventilation.

	SOLAR KITS CODE	K-SAE0460E	K-SAE0910E	K-SAE1370E	K-SAE1825E
Solar panels	Nominal power	50 kW	100 kW	150 kW	200 kW
	Number of panels	266 x 330W	532 x 330W	798 x 330W	1.064 x 330W
	Total power of panels	87,78 kW	175,56 kW	263,34 kW	351,12 kW
	Minimum power per day	219,45 kWh	438,90 kWh	654,35 kWh	877,80 kWh
	Maximum power per day	456,46 kWh	912,92 kWh	1.369,38 kWh	1.825,84 kWh
	Total power per year	122,89 MWh	245,78 MWh	368,67 MWh	491,56 MWh
Energy storage	Voltage of the battery	768 (Vdc)	768 (Vdc)	768 (Vdc)	768 (Vdc)
	Charge of the battery	250 Ah	300 Ah	350 Ah	700 Ah
	Number of Batteries	1 x SAE-0384	1 x SAE-0461	1 x SAE-0538	1 x SAE-1076
	Total Energy Stored	384 kWh	406,80 kWh	537,60 kWh	1.075 kWh
	Total useful energy	345,6 kWh	691,2 kWh	1.036,8 kWh	1.382,4 kWh
Inverter / Controller	Number of inverter + charge controller	1 x GRIDSAVE-50.0-TL3-S	2 x GRIDSAVE-50.0-TL3-S	3 x GRIDSAVE-50.0-TL3-S	4 x GRIDSAVE-50.0-TL3-S
	Maximum power of inverter	52 KVA	104 KVA	156 KVA	208 KVA
	Nominal power of inverter	50 KVA	100 KVA	150 KVA	200 KVA
	Output voltage	220 - 230 Vac (PN) 380 - 400 Vac (PP)	220 - 230 Vac (PN) 380 - 400 Vac (PP)	220 - 230 Vac (PN) 380 - 400 Vac (PP)	220 - 230 Vac (PN) 380 - 400 Vac (PP)
	Maximum input current	90 ADC	180 ADC	270 ADC	360 ADC
	Inverter input intensity	76,5 AAC	153 AAC	229,5 AAC	306 AAC
Size of the Kit	Rack	10 x 600 x 600 x 1.833	12 x 600 x 600 x 1.833	14 x 600 x 600 x 1.833	28 x 600 x 600 x 1.833
		1 x 500 x 425 x 760	2 x 500 x 425 x 760	3 x 500 x 425 x 760	4 x 500 x 425 x 760
	Container	1 x CONT-20MRF	1 x CONT-40MRF	1 x CONT-40MRF	2 x CONT-40MRF
	Weight (kg)	10.261	20.522	30.784	41.045
Warranty	10 years	10 years	10 years	10 years	

Please feel free to contact Prof. Michelet Montina for more information by email:
montina@ipf-africa.com