2 years data logging capacity, monthly evaluation report, calculation of	Data logger	
Inverters, Grid (back-feeding)	Outputs	
Meters, sensors, inverters, Genset Control Unit, Grid (consumption)	Inputs	
inverter, existing Genset control Unit, environment sensors and electrical meters)		
RS485, Ethernet and/or RS232 (compatible with Grid-dependent	Comm	& data logger
Final radiction device	Type	DV plant controller
	Dated Cycles at DOD 70%	
venieu lube lead acid	Batad aveles at DOD 70%	
Visited title lead and	Maximum DOD	
7007 A 04	vollage	
78V 10M OOD (222	Rated Capacity	
Technical room	Place of installation	Battery bank
reconnection conditions, linear output power control from a third device (read and write capabilities), utility interactive photovoltaic inverter system	Administra	
MODBUS or CAN (with communication bridge if required), allowing reading and writing on the inverter	Communication	
Yes / VDF 0126-1-1 or similar	Anti-islanding protection	
230 V and 50 Hz	Designed for an electrical gird of:	
36 DVA contingue (6 units of 6 DVA each)	Pated nower	
Vec	Assistance to grid	
Yes	Charger function	
Yes	Inverter function	
48 V	Nominal battery voltage	Inverter
Technical room	Location	Dual mode
Fq = 50 ± 5 Hz		
Vp-p=400 V ± 20%		
Vp-n = 230 V ±20%	Permissible grid characteristics (inverter not to be disconnected)	
Uynamic compensation or reactive power, inverter automatic reconnection conditions, linear output power control from a third device (read and write capabilities), utility-interactive photovoltaic inverter system.	Additional requirements	
RS485, ethernet, RS232	Comunication	
Yes/ VDE 0126-1-1 or similar	Anti -islanding protection	
Harmonic Current (IEC 61000-3-2 and / or IEC61000-3-4), IEC 62109-1/2	Standards	
≥ 97 %	Euroefficiency	
>98%	Maximum efficiency	
≤3% ✓3 W	Concumption of night	
1	Phi cosine	
50 Hz (adjustable)	Output AC frequency	
3 / N / PE 230, 400 V (adjustable)	Output AC voltage	
1000 V	Maximum DC voltage	
150 V - 800 V	Biggest voltage MPP range	
≥ IP65	Protection Class	
≥1	Number of MPP tracker	
>80.000 W	Rated power	
Three phase transformerless		מומ-וופט ווואפונפו
EC 61215 edition 2, IEC 61/30, IEC 62/16, IEC 61/01	Standards	Grid-Tied Inverter
Ground Mounted, 180º	Location and Orientation	
Crystalline 72 cells	Type of module	
15º	Inclination	Generator
110,000 ***	I v capacity at 31 c (vvp)	FIIOLOVOILAIC

- caacaon moac		Battery
Genset Load feeding according to fuel		Fuel Reduction
Grid Load feeding (normal operation) Injection to the grid if any surplus		Grid Mode
/ER GRID CONNECTED INVERTER RCE OPERATION	E POWER SOURCE	MODE
MODE OF OPERATION		

Output | Specific Yield | Perform | Specific Yield | Perform | Specific Yield | Perform | Perfor

SERVICE SPECIFICATIONS

Facility Reference annual consumption characte (kWh)/year) Estimated solar fraction

238,272 kWh/year Approx 56%

370 kWh/day L,500 kWh/kWp



DRAWING: SYSTEM LAYOUT AND ARCHITECTURE
PROJECT: JDEIDET EL CHOUF WWTP PV SYSTEM
BENEFICIARY: JDEIDET EL CHOUF MUNICIPALITY
PVLB 2.1.1

	POWER	GRID CONNECTED INVERTER
	SOURCE	OPERATION
Ф	Grid	Load feeding (normal operation) Injection to the grid if any surplus
ıction	Genset	Load feeding according to fuel reduction mode
ery	Battery Bank	Load feeding from batterles (grid-forming)