

Mounting Structure 4:
PV capacity > 21 kWp
Inclination: 10 degrees

Mounting Structure 3. PV capacity > 9 kWp Inclination: 10 degrees

Mounting structure 2: PV capacity > 20 kWp Inclination: 10 degrees

Mounting Structure 1: PV capacity > 20 kWp

Inclination	Total PV Capacity at STC (Wp)	PV Capacity at STC (Wp) Pergola 4	PV Capacity at STC (Wp) Pergola 3	PV Capacity at STC (Wp) Pergola 2	PV Capacity at STC (Wp) Pergola 1	GENERAL SP	
10⁰	≥70,000 Wp	≥21,000 Wp	≥9,000 Wp	≥20,000 Wp	≥20,000 Wp	GENERAL SPECIFICATIONS	Inclination: 10 degrees

Generator Photovoltaic

Multi-string

ocation

Type of module Location and Orientation

Roof mounted, Azimuth: 218º EC 61215 edition 2, IEC 61730, IEC 62716,

Crystalline 72 cells

Three phase transformerless ≥64,000 W

inverters

Rated power
Number of MPP tracker
Protection Class
Biggest voltage MPP range

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Vp-n = 230 V ±20%	system:	(read and write capabilities), utility-interactive photovoltaic inverter	Dynamic compensation of reactive power, inverter automatic reconnection conditions, linear output power control from a third device	RS485, ethernet, RS232	Yes/ VDE 0126-1-1 or similar	Harmonic Current (IEC 61000-3-2 and / or IEC61000-3-4), IEC 62109-1/2	≥97%
Fuel Reduction	Grid Mode	MODE			Output p		
Genset	Grid	POWER SOURCE	≤		Output performance		S
-6 -C			1011				Ιm
Load feeding according to f	oad feeding (normal opera njection to the grid if any s	GRID CONNECTED INVERTE OPERATION	MODE OF OPERATION	(kWh/day)	Dai	Specific Yield	RVICE SPECIFICATION:
Load feeding according to fuel reduction mode	Load feeding (normal operation) Injection to the grid if any surplus	GRID CONNECTED INVERTER OPERATION	ODE OF OPERATION			Specific Yield 1,480 kWh/kWp	SERVICE SPECIFICATIONS

DRAWING: SYSTEM LAYOUT AND ARCHITECTURE
PROJECT: DAR ASSALAM PV SYSTEM
CLIENT: DAR ASSALAM
PVLB 2.1.3

	indicators and remote monitoring	
<u>!</u>	2 years data logging capacity, monthly evaluation report, calculation of	Data logger
CLI	Inverters, Grid (back-feeding)	Outputs
7	Meters, sensors, inverters, Genset Control Unit, Grid (consumption)	Inputs
7. Z	llieters)	

inverter, existing Genset control Unit, environment sensors and electrica

RS485, Ethernet and/or RS232 (compatible with Grid-dependent

Fuel reduction device

Vp-n = 230 V ±20% Vp-p=400 V ± 20% Fq = 50 ± 5 Hz

PV plant controller & data logger

Communication

Type

Permissible grid characteristics (inverter not to be disconnected)

Additional requirements Anti -islanding protection
Comunication

Consumption at night

Maximum efficiency

Euroefficiency

Standards

≥97% ≥98%

≤3 W ≤ 3% Output AC frequency Maximum DC voltage

Phi cosine

H

Output AC voltage

3 / N / PE 230, 400 V (adjustable)

1.000 V

50 Hz (adjustable)

