

















Notes

PV PLANT NAME		Izishalo Growers			
LOCATION		Gauteng, South Africa			
EPSP:32735 CONVERGENCE		-0.6844 °			
AVERAGE ELEVATION (m)		1492.37			
PEAK POWER (MW)		23.748			
APPARENT POWER AT INVERTERS (MVA)		19.8			
RATED POWER AT INVERTERS (MW)		19.8			
DC/AC RATIO AT INVERTERS		1.199			
POWER FACTOR AT INVERTERS		1.0000			
RATED POWER AT POI (MW)		19.43			
DC/AC RATIO AT POI		1.222			
DC SYSTEM VOLTAGE (kV)		1.5			
MV AC SYSTEM VOLTAGE (kV)		20.0			
SUITABLE AREA (ha)		16.95			
FENCED AREA (ha)		25.24			
PERIMETER FENCE (km)		1.97			
ROADS (km)		1.75			
PV MODULE MODEL		Trina Solar TSM-720NEG21C.20			
PV MODULE RATING (W)		720.00			
PV MODULE QUANTITY		32984			
PV MODULES PER STRING		28			
STRUCTURE	STRINGS PER STRUCTURE	NUMBER OF STRUCTURES	STRINGS COUNT	TILT	
Generic - 2V	2	589	1178	10.0	
LAYOUT ROTATION ANGLE		0.00			
CCR		0.91			
PITCH DISTANCE (m)		10.69			
CLEARANCE BETWEEN ROWS (m)		1.0			
INVERTER MODEL		INVERTER RATING Pmax (kVA)	QUANTITY OF INVERTERS		
Huawei Technologies SUN2000-330KTL-H1		330.0	60		
POWER STATION TRANSFORMER RATING (MW)		QUANTITY OF POWER STATION TRANSFORMERS			
1.98		10			
TOTAL POWER STATION TRANSFORMER RATING (MW)		1.98			
TOTAL QUANTITY OF POWER STATION TRANSFORMERS		10			
AREA	PEAK POWER PER AREA (MW)	RATED POWER AT INVERTERS (MW)	DC/AC RATIO AT INVERTERS		
AA-Polygon1	23.748	19.8	1.199		
TOTAL NUMBER OF AREAS		1			
TOTAL NUMBER OF GROUP OF AREAS		0			
ACTIVE POWER AT STORAGE INVERTERS (MVA)		22.0			
POWER FACTOR AT INVERTERS		1.0000			
SUPPLY DURATION (h)		1.822			
TOTAL ENERGY CAPACITY (MWh)		40.08			
INTERCONNECTION FACILITY	SUBSTATION ARRANGEMENT	CAPACITY (MVA)	QUANTITY OF TRANSFORMERS		
SBS	STATION	41.8	-		
TOTAL NUMBER OF ST		0			
TOTAL NUMBER OF SBS		1			
INTERCONNECTION VOLTAGE (kV)		20.0			
TOTAL QUANTITY OF TRANSFORMERS		0			

Legend	
	Available area
	Restricted area (RA-1)
	Switching and breaking station
	Power station
	Colors indicate solar field connection to each power station
	Mounting structure
	Roads
	Medium voltage trenches
	Low voltage trenches
	Fences
	Medium voltage lines
	Cables from inverter to PS
	String inverters
	Battery area
	Power conversion system
	Battery Container

00	FIRST VERSION	RP	2026-05-11
REV	DESCRIPTION	BY	DATE

FOR INFORMATION ONLY



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PROJECT:	Izitshalo Growers
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DRAWING:	PV Plant Layout
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SCALE: 1 : 4000	SHEET: 2 / 2
REVISION: 00	DATE: 2026-05-11
DIN A3	