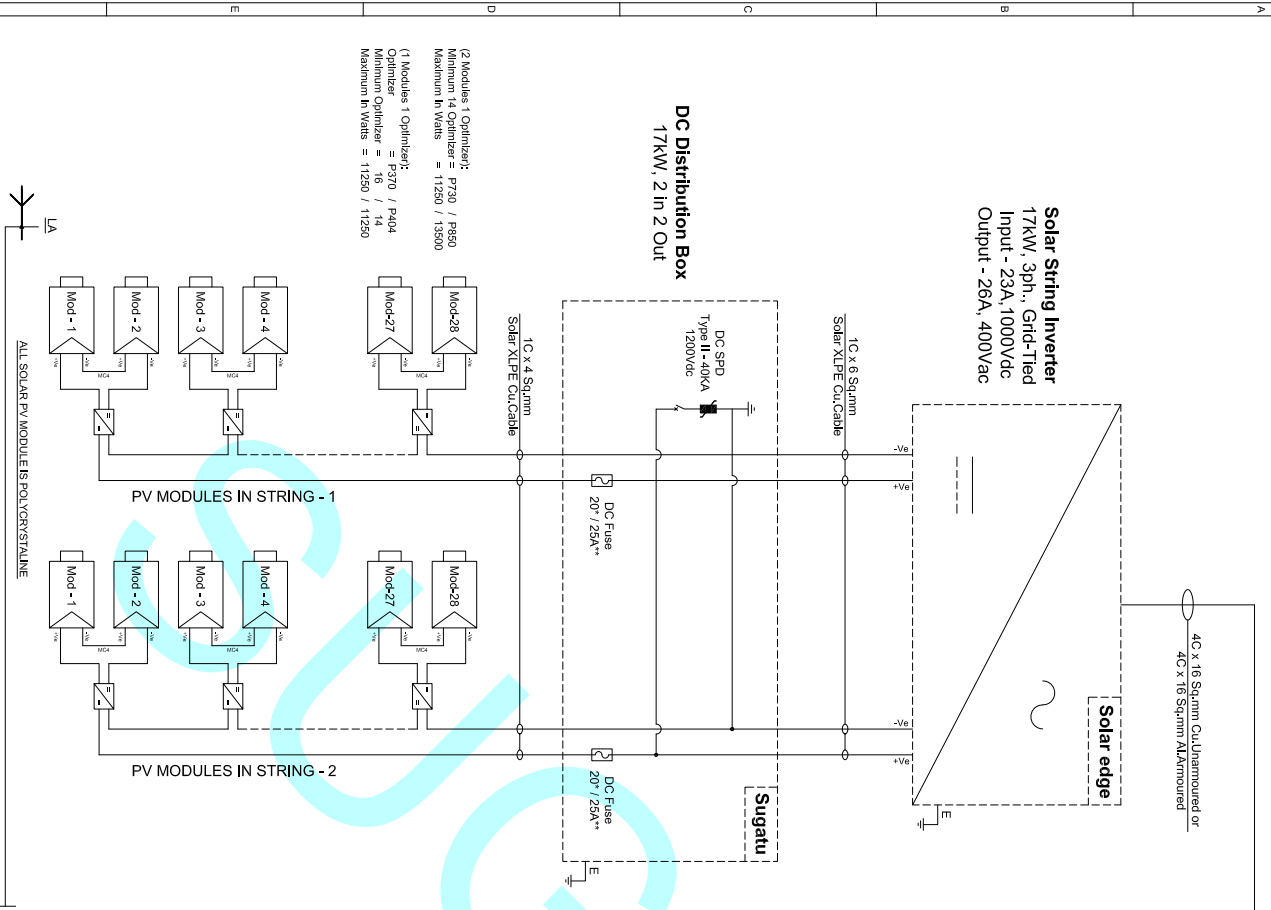


SINGLE LINE DIAGRAM



Solar String Inverter
17KW, 3ph., Grid-Tied
Input - 23A, 1000Vdc
Output - 26A, 400Vac

DC Distribution Box
17KW, 2 in 2 Out

AC Distribution Box
17KW, 1 in 1 Out

(2 Modules 1 Optimizer)
Minimum 14 Optimizer = P730 / P850
Maximum In Watts = 11250 / 13500

(1 Modules 1 Optimizer)
Optimizer = P370 / P404
Minimum Optimizer = 16 / 14
Maximum In Watts = 11250 / 11250

ALL SOLAR PV MODULES POLYCRYSTALLINE

PV MODULES IN STRING - 1

PV MODULES IN STRING - 2

: LEGENDS:

	Power Optimizer
	PV Module
	SPD
	DC Fuse
	MCB
	Earth

NOTE:-

- Ideally for maximum power generation solar panels should be installed in shadow free area. Facing south direction. Solar panels should also be cleaned periodically depending on the environmental conditions.
- Internet should be provided before commissioning of the system for activating remote monitoring and to be able to provide the online support and monitoring.
- Installation of specified DCDB/Inverter/ACDB should be carried out as per the user manual and protected from direct sunlight and rain water. This is mandatory for the validity of the warranty of the Inverter.
- Separate crimping tools must be used for crimping the MC4 Connectors as well for the lugs.
- Suitable Copper/Aluminium Lugs are to be used at the end of the cables for termination. After crimping use the Heat Shrink Sleeves.
- AC/DC Cables are to be routed through UPVC Pipes/Cables trays as required.
- Communication cables are not to be routed along with AC/DC Cables. The gap between AC/DC Cables and communication cables should be minimum 300mm.
- Lightning Arrester should be installed and connected to dedicated earthing points ensure that it is covering all the solar panels.
- Structure DCDB/Inverter/ACDB's are to be properly earthed with suitable conductor.
- Operation and Maintenance of the system is to be carried out on regular basis as per O&M Schedule with respect to the site conditions.
- Power optimizer design is subject to module rating: 325 to 365Wp (**P730) & 380 to 425Wp (**P850)
- Refer user manual before confirming.

Prepared By	SAM	SCALE :	Not To Scale	REF. NO.:	...	REVISION	00	SUBJECT :	SINGLE LINE DIAGRAM OF 17KW GRID-TIE SOLAR PV SYSTEM	SUPPLIER :	SUGATU INFRA PVT. LTD.
Checked By	HS	PROJECTION:		DRAWING NO.:	...	CLIENT :	DOCUMENTATION PUBLIC	PROJECT :	17KW GRID-TIE SOLAR PV ROOFTOP POWER GENERATING SYSTEM	101, 1st Floor, The Piyas, Maruthi Madhava, LBS Road, Mulund West, Mumbai - 400050.	
Approved By	SE										