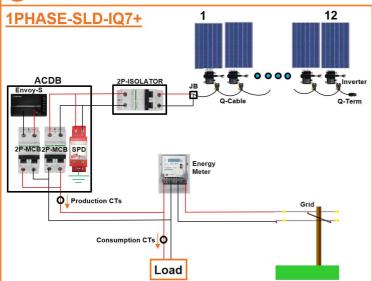
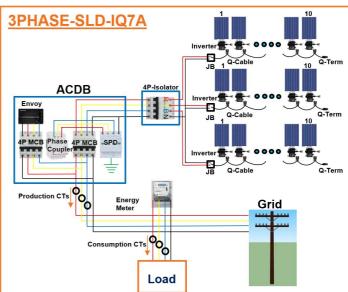


## **QUICK INSTALL GUIDE**





1PHASE-BOM-IQ7+ (PV=400Wp)						
	Model Number					
<b>PV Capacity</b>	IQ7PLUS-72-2-INT	Q-12-10-240	Q-TERM-10	Q-DISC-10	ENV-S-WM-230	
Unit	No.s	Drop	No.s	No.s	No.s	
1kW	3	3	1	1	1	
2kW	5	5	1	1	1	
3kW	8	8	1	1	1	
4kW	10	10	1	1	1	
5kW	13	13	2	1	1	

1PHASE-BOM-IQ7A (PV=500Wp)						
	Model Number					
<b>PV Capacity</b>	IQ7A-72-2-INT	Q-12-10-240	Q-TERM-10	Q-DISC-10	ENV-S-WM-230	
Unit	No.s	Drop	No.s	No.s	No.s	
1kW	2	2	1	1	1	
2kW	4	4	1	1	1	
3kW	6	6	1	1	1	
4kW	8	8	1	1	1	
5kW	10	10	2	1	1	

3PHASE-BOM-IQ7+(PV=400Wp)							
	Model Number						
PV Capacity	IQ7PLUS-72-2-INT	Q-12-10-240	Q-TERM-10	Q-DISC- 10	ENV-S- WM-230	LPC-01	
Unit	No.s	Drop	No.s	No.s	No.s	No.s	
3kW	8	8	3	1	1	1	
5kW	13	13	3	1	1	1	
7kW	18	18	3	1	1	1	
10kW	25	25	3	1	1	1	

3PHASE-BOM-IQ7A(PV=500Wp)							
	Model Number						
PV Capacity	IQ7A-72-2-INT	Q-12-10-240	Q-TERM-10	Q-DISC- 10	ENV-S- WM-230	LPC-01	
Unit	No.s	Drop	No.s	No.s	No.s	No.s	
3kW	6	6	3	1	1	1	
5kW	10	10	3	1	1	1	
7kW	14	14	3	1	1	1	
10kW	20	20	3	1	1	1	

- 1. The provided SLD & BOM for illustrative. Actual system design and BOM depend on actual site-specific conditions.
- IQ7+ is compatible up to 400Wp panel; IQ7A compatible up to 500Wp panel. Max no of microinverter per branch circuit: IQ7A:-10 No's & IQ7+:-12 NO's.
- Either Portrait or Landscape , Enphase Q cable to be chosen based on solar panel orientation
- Microinverters comes along with mounting frames. M6/M8 Bolts and Nuts to be used to fix Microinverters on Module Mounting Structure. Torque range M6 Bolts-
- Mount the microinverter bracket away from rain and sun. Allow a minimum of 1.9 cm between the roof and the microinverter. Also allow 1.3 cm between the back of the PV module and the top of the microinverter.
- Q Cable standard size 3.31 Sq.mm and Designed to limit Max 20A
- Microinverters and Q Cables to be disconnected only by using Q Disconnector tool
- Q cable end and extension cable to be terminated with proper Terminal block with MCB's along with IP65 rated enclosure
- MCB Size Selection = No of microinverter x Max output current of one micro x 1.25 Degradation factor
- 10. Farthest microinverter to Envoy distance should be less than 50m
- 11. ACDB and Terminal block panels should be planned with suitable cable glands
- 12. Phase Coupler is mandate only for 3 Phase Systems
- 13. Envoy and Phase couplers should be installed with separate MCB protection; Max MCB rating is 20A
- 14. Micro to Envoy communication occurs through AC Cables over Powerline Communication. Separate Communication cables not required
- 15. Uc =275V, AC Type-II SPD's are mandate to install at ACDB panel. Dedicated Earthing to be done for SPD
- 16. Dedicated Inverter Earthing is not required. Module mounting structure earthing is sufficient
- 17. Production CT's and Consumption CT's are mandate to Enable Zero export Limit features. CT's are optional for regular systems
- 18. Envoy comes with 2 Default CT's. Single phase systems 2 CT's are fine; Three phase system required total 6 CT's for monitoring both production and consumption
- 19. 2% Voltage drop to maintained from Microinverter to ACDB panel
- 20. If any site communication issues happens due to inductive and capacitive loads, Line filters to be install in later stage (Case to Case)
  21. Either LAN / Wiff internet connection to be provided for Envoy communication with Enlighten cloud

## **Abbreviation:**

- **ACDB:-** AC Distribution Box
- 2P/4P MCB:- 2Pole/4Pole Miniature Circuit Breaker
- SPD:- Surge protection device
- JB- Junction Box
- ENV-S-WM-230:- Envoy-S
- LPC-01:- Legrand Phase of CT:- Current transformer LPC-01:- Legrand Phase coupler