POLYCAB
Connection Zindagi Ka

BOS Sheet for Polycab New 1Ph 2K--6K Inverter

INVERTER TECHNICAL DATA										EXTERNAL PROTECTION DEVICE					SOLAR DC CABLE (PV Panel to Inverter)	AC CABLE RATING			
										AJB / DCDB			ACDB / LT Panel						
Inverter Model No.	Inverter Rating	Max. DC Power	No. of MPPT	No. of Inputs / MPPT	Max. Input Voltage	MPPT Voltage Range	No. of Phases	AC Voltage Range	Max. Output Current	Strings In / Out	Fuse / MCB	Type-II SPD Ratings	MCB / MCCB	Type-II SPD Ratings (Connection- P-E) Recommendation		Inverter to ACDB	ACDB to LT Panel (<20mtr)	ACDB to LT Panel (20mtr-50mtr)	Earthing Cable for Inverter for PE+Body Earthing (Cu Flexible)
PSIS-2K-SM1	2 KW	3KW	1	1	500V	50-490 V	1	160-300V	10A	1In / 1Out	15A	Uc-500Vdc	16A	Uc < 300Vac	1C*4 Sq mm	Cu. Flex. 3C*4 Sq mm	Cu. Flex. 3C*4 Sq mm	Cu. Flex. 3C*6 Sq mm	Same as AC cable rating
PSIS-3K-SM1	3 KW	4.5 KW	1	1	500V	50-490 V	1	160-300V	15A	1In / 1Out	15A	Uc-500Vdc	25A	Uc < 300Vac	1C*4 Sq mm	Cu. Flex. 3C*4 Sq mm	Cu. Flex. 3C*4 Sq mm	Cu. Flex. 3C*6 Sq mm	Same as AC cable rating
PSIS-3.6K-SM1	3.6 KW	5.4 KW	1	1	500V	50-490 V	1	160-300V	16A	1In / 1Out	15A	Uc-500Vdc	25A	Uc < 300Vac	1C*4 Sq mm	Cu. Flex. 3C*4 Sq mm	Cu. Flex. 3C*4 Sq mm	Cu. Flex. 3C*6 Sq mm	Same as AC cable rating
PSIS-4K-SM2	4 KW	6 KW	2	1	550V	70-540V	1	160-300V	20A	2In / 2Out	15A	Uc-550/600Vdc	32A	Uc < 300Vac	1C*4 Sq mm	Cu. Flex. 3C*6 Sq mm	Cu. Flex. 3C*6 Sq mm	Cu. Flex. 3C*10 Sq mm	Same as AC cable rating
PSIS-5K-SM2	5 KW	7.5 KW	2	1	550V	70-540V	1	160-300V	25.0A	2In / 2Out	15A	Uc-550/600Vdc	32A	Uc < 300Vac	1C*4 Sq mm	Cu. Flex. 3C*6 Sq mm	Cu. Flex. 3C*6 Sq mm	Cu. Flex. 3C*10 Sq mm	Same as AC cable rating
PSIS-6K-SM2	6 KW	9 KW	2	1	550V	70-540V	1	160-300V	27.3A	2In / 2Out	15A	Uc-550/600Vdc	40A	Uc < 300Vac	1C*4 Sq mm	Cu. Flex. 3C*6 Sq mm	Cu. Flex. 3C*6 Sq mm	Cu. Flex. 3C*10 Sq mm	Same as AC cable rating

01) Inverter is a key BOS equipment of a Solar PV system.	07) Avoid loose connections and Reverse Polarity of Strings.	13) Earth resistance of each earth pit should be less than 1 ohm
02) Unpack & check for Inverter rating & accessories as per manual.	08) Install DCDB & ACDB to protect Inverter from external surges/failures.	14) Ensure Grid voltage is within range to run inverter smoothly.
03) Use suitable tools for making proper AC & DC connections.	09) Use rated and reliable components in DCDB & ACDB as suggested.	15) Avoid Installation of the inverter in a location exposed to direct sunlight & rain.
04) Install inverter with >500mm clearance from all sides.	10) Use appropriate size lugs & heat sleeves to avoid cable heating issues.	16) Always switch ON AC supply first and then switch ON DC supply to the Inverter.
05) Use accessories provided along with Inverter only.	11) Connect separate earthing for DC & AC of the Inverter to ensure proper protection.	17) Always switch OFF AC supply first and then switch OFF DC supply for O & M.
06) Use only recommended Solar DC cable, AC cable & Earthing cable as suggested.	12) Ensure Neutral to Earth (N-E) Voltage is always maintain <3V.	18) Contact Polycab Solar Team during Inverter I&C and O&M activities.