

TECHNICAL DATA AND TYPES – KIRLOSKAR MAKE SOLAR POWER CONDITIONING UNIT - JALVERTER™

INPUT DC			
TYPE DESIGNATION	JALVERTER-J1.5	JALVERTER-J2.8	JALVERTER-J3.6
	2.2 KW/3HP	7.5 KW/10HP	22 KW/30HP
MAX. I/P POWER (KW)	3.5	12	32
DC VOLTAGE RANGE Mpp	150-240V	350-700V	350-700V
MAX. DC VOLTAGE Voc	400V	1000V	1000V
MAX DC CURRENT	23A	35A	45A
MPPT ACTION (TRIPLE MODE)	IN BUILT	IN BUILT	IN BUILT
CUMULATIVE POWER	AUTO STORE	AUTO STORE	AUTO STORE
VOLTAGE RIPPLE	<2%	<2%	<2%
I/P VOLTAGE OPTIONS	RECTIFIED & FILTERED DC/SOLAR	RECTIFIED & FILTERED DC/SOLAR	RECTIFIED & FILTERED DC/SOLAR
MAX. PARALLEL STRINGS	10	20	20
OUTPUT AC			
NOMINAL AC O/P POWER	2.2KW	7.5KW	22KW
NOMINAL AC CURRENT	18A	15A	45
NOMINAL O/P VOLTAGE	120V / 230V	230V / 400V	400V
O/P FREQUENCY	VARIABLE-1 TO 50Hz	VARIABLE-1 TO 50Hz	VARIABLE-1 TO 50Hz
HARMONIC DISTORTION	<3%	<3%	<3%
V/F CURVE PATTERN	LINEAR	LINEAR	LINEAR
POWER FACTOR CORRECTION	YES	YES	YES
THREE PHASE LOAD	INDUCTIVE	INDUCTIVE	INDUCTIVE
SINGLE PHASE LOAD	MIXED	MIXED	MIXED
MODE OF OPERATION			
MOTOR MODE	YES	YES	YES
PROGRAM MODE	YES	YES	YES
LIGHTING MODE	YES	YES	YES
MODE SELECTION	SELECTOR SWITCH	SELECTOR SWITCH	SELECTOR SWITCH
EFFICIENCY			
TESTED AS PER IEC 61683	96%	98.46%	95.48%

POWER CONSUMPTION			
NO LOAD POWER	8.681W	18.472W	21.234W
STANDBY POWER	7.0430W	12.749W	13.889W
ENVIRONMENTAL LIMITS			
DEG. OF PROTECTION	IP 21	IP 21	IP 21
AMBIENT TEMP. RANGE	0 TO 50 deg	0 TO 50 deg	0 TO 50 deg
MAX. AMBIENT TEMP.	55 deg	55 deg	55 deg
RELATIVE HUMIDITY-NOT CONDENSING	15%-95%	15%-95%	15%-95%
MAX. ALTITUDE ABOVE MSL	2000mts	2000mts	2000mts
MAX. NOISE LEVEL	60 dBA	60 dBA	60 dBA
COOLING	FORCED AIR	FORCED AIR	FORCED AIR
PROTECTIONS			
DC REVERSE POLARITY	YES	YES	YES
O/P SHORT CIRCUIT	YES	YES	YES
O/P OVER CURRENT	YES	YES	YES
DC LOW VOLTAGE	YES	YES	YES
OVER TEMP.	YES	YES	YES
O/P OVER VOLTAGE	YES	YES	YES
OVER LOAD	YES	YES	YES
O/P UNBALANCE PROTECTION	YES	YES	YES
SENSORLESS DRY RUN	YES	YES	YES
USER INTERFACE AND COMMUNICATIONS			
RUN INDICATOR	GREEN LED	GREEN LED	GREEN LED
ON HOLD	SLOW BLINK GREEN & RED	SLOW BLINK GREEN & RED	SLOW BLINK GREEN & RED
DRY RUN	RED LED-FAST BLINK	RED LED-FAST BLINK	RED LED-FAST BLINK
STOP & START	RED LED ON	RED LED ON	RED LED ON
SWITCH SELECTABLE-SINGLE PHASE,THREE PHASE, PROGRAM MODE	YES	YES	YES
FIELD PROGRAMMING WITH PASS CODE	YES	YES	YES
ANALOG I/P TO SHUT DOWN	YES	YES	YES
COMPUTER INTERFACE	RS 485	RS 485	RS 485
FAULT DISPLAY	TWO LINE 16 CHARACTER LCD DISPLAY	TWO LINE 16 CHARACTER LCD DISPLAY	TWO LINE 16 CHARACTER LCD DISPLAY
MODE OF CONTROL	KEYPAD/DC INPUT	KEYPAD/DC INPUT	KEYPAD/DC INPUT
DIAGNOSTIC FEATURE			
Voc OF SOLAR MATRIX	YES	YES	YES