

TECHNICAL SPECIFICATION OF LOWER RATING IPCL MODELS (1 to 10 kw)

MODELS	IPCL-1	IPCL-2	IPCL-3	IPCL-5	IPCL-6	IPCL-7.5	IPCL-10
POWER RATING							
KW (Output Load)	1	2	3	5	6	7.5	10
INPUT							
Solar Array Input range (VDC)	36-90	72 – 180		144 – 360	180-450	180 – 450	270-450
Max Voc (VDC)	45	180		360	450	450	450
Max Solar PV input KW (STC)	1.05	2.10	3.15	5.25	6.30	7.88	10.50
SOLAR CHARGER CONTROLLER							
Type	MPPT						
Switching element	IGBT						
Controller	DSP						
BATTERY							
Battery Nominal (VDC)	24	48		96	120	120	180
Type	Tubular flooded / SMF / Gel / AGM						
Temperature compensation	@ 3mV per 2v cell						
INVERTER OUTPUT							
Power Capacity (KW)	1	2	3	5	6	7.5	10
Load Power Factor	0.8 lag to Unity						
Nominal Voltage	220 VAC, Single phase 3 Wire						
Frequency	50HZ (+/- 1 Hz)						
Voltage Regulation	+/- 1%						
Waveform	True Sinewave						
Voltage Distortion	< 3 % at Linear Load						
Overload Capacity	300% for 1 sec ; 150% for 30 sec ; 125% for 1 min						
EFFICIENCY							
Inverter Efficiency (DC to AC)	>85%						
ENVIRONMENTAL							
Acoustic Noise @ 1mtr	60db.						
Ambient Temperature	0 to 50 Deg C						
Storage Temperature	-10 to +55 Deg C						
Humidity	Upto 95% RH, Non Condensing						
Altitude	< 1000 Mtrs. Above Sea Level						
PHYSICAL							
Enclosure Protection	IP – 21						
Cooling	Temperature controlled Forced Cooling						
Cable Entry	Back						
DIMENSIONS							
L x W x H (inch)	18 x 10 x 20			23 x 13 x 26			26x13x26
Weight (kgs)	35	43	50	60	65	78	90
LCD Display							
General :	Alpha numeric LCD display showing parameters from Solar PV array, Battery, Grid, Load like Power, Voltage, Current, etc. Fault display						