Multipower

INDEX

PURE SINE WAVE
INVERTERS

- Headquartered in **Kolkata**, India
- Products : **Lead Acid Storage Batteries** : 2.5Ah to 20,000 Ah
  Home UPS
  DC Power Solution
  Standby Products & Solutions
- **9 Manufacturing units** in India
- **1 R&D Center** in India
- **5 Wholly owned Subsidiaries** in India
- Turnover of **USD 1.3 Billion**
- An Integrated Manufacturing Unit for **Standby Systems and DC Power solutions** in Kolkata, India.

LKVA
Solar Hybrid Inverter

Techinical Specifications of Solar Inverter (Lower KVA)

DESCRIPTION		SPECIFICATION			
Inverter Rating	:	650VA	850VA	1050VA	1450VA
Maximum Solar Input (Watt)	:	750Wp	750Wp	750Wp	1500Wp
Operating Battery Voltage	:	12V DC Nominal			24V DC Nominal
Solar Input Voltage	:	16VDC - 25VDC			32VDC - 50VDC
Solar Charging Current	:	40Amp ± 5Amp			40Amp ± 5Amp
Solar Charge Controller Type	:	PWM True Hybrid Solar Charge Controller			
Rating of Charge Controller	:	50Amp, 12V			50Amp, 24V
Back-up mode nominal AC Volt Regulation	:	220V ± 7V (Factory Settable)			
Back-up mode nominal Frequency Regulation	:	50Hz ± 1Hz			
Wave Shape	:	Sinusoidal even in inductive load like Fan, Tubelight etc.			
Design	:	Advance MOSFET Based Topology			
Soft Start	:	Preferable			
Inverter Surge Ouput Rating	:	300% for 1 secs			
Peak Efficiency	:	>80% at Nominal Battery Voltage at 25 ^{0}C			
Total Harmonics Distortion (THD)	:	< 5% at Linear Load			
No Load Current	:	≤ 2.2Amp			
Overload	:	> 100% load applied			
Overload Retries	:	Sleep mode after 6 auto retries			
Mains Voltage Range (Wide Band Mode)	:	100V - 280V		90V - 300V	100V - 280V
Mains Voltage Range (Nerrow Band Mode)	:	180V - 260V			
Output Voltage at Mains Mode	:	Same as Mains Input Voltage			
Output Frequency at Mains Mode	:	50Hz ± 1Hz			
Charging Current (If connected to Mains/ Grid Power)	:	HC = 15Amp ± 1Amp NC = 12Amp ± 1Amp		HC = 18Amp ± 1Amp NC = 13Amp ± 1Amp	HC = 15Amp ± 1Amp NC = 12Amp ± 1Amp
In-built Protection	:	Output Short Circuit, Overload, Over Charge, Deep Discharge, Battery Reverse Polarity, Mains Output Short Circuit, PV Reverse Protection, Reverse Current Flow Protection (Battery to Solar), Heat-up			
Display Type	:	Tri Color LCD Display 1. Yellow Green Color Backlight : While Back-up ON 2. Bright Green Color Backlight : While Charging 3. Red Color Backlight : While Protection			
Display Fuction	:	Actual Battery Voltage, Actual Mains Input Voltage, Actual Applied Load in %age, Charging & Discharging Status, Availability & Non Availability of Solar, Battery Low or Over Charge Protection, PV Reverse Protection, AC Fuse Trip Protection, Output AC Short Circuit, Overload, Over Temperature etc.			
Audible Alarm	:	Overload, Battery Low, Short Circuit, PV Reverse, Over Temperature, Battery Over Charge, AC Fuse Trip			
Operating Temperature	:	0 ^{0}C - 45 ^{0}C			
Humidity	:	5% to 95% Non-Condensing			
Enclosure	:	ABS Bezel with floor mounting powder coated sheet metal cabinet			

Features of EXIDE LKVA Models

(Rating - EXIDE 650VA 12V, EXIDE 850VA 12V, EXIDE 1050VA 12V & EXIDE 1450VA 24V):

- Pure Sine Wave Output Wave Form same as Grid
- DSP Based Advance MOSFET Topology
- ASIC (Auto Sense Intelligent Control) Technology i.e. Automatically Sense Battery Condition & adjust Charging Current accordingly and thus increases Battery life and minimizes water topping.
- Program in-built cooling fan which is operated as needed
- Try State of Battery Charging i.e. HC = 13Amp, EC = 11Amp & NC = 9Amp
- Dual Output AC Sockets
- Dual LCD & LED Display
- Display Functions: Actual Mains Input Voltage, Battery Charging or Charged, UPS/ Normal Mode, Applied Load in %age, Battery Low or Over Charge Protection, AC Fuse Blown Protection, Output AC Short Circuit, Overload, Over Temperature etc.

- Copper Power Tranformer in-built
- Electrolytic Level Sensor Indication i.e. optional
- Manual Mains Bypass Facility
- Fast Swicthover Time i.e. <10 msecs from Mains to Back-up or vice versa in UPS/ Nerrow Band Mode
- Extreamely Low Total Harmonics Distotion i.e. < 5% at leaner load
- Reverse Phase Protection in-built
- Wide Charging Range in Normal Mode/ Wide Band Mode i.e. 100V to 280V AC
- In-built Protections: Output Short Circuit, Overload, Over Charge, Deep Discharge, Battery Reverse Polarity,
- Mains Output Short Circuit, Heat-up etc.
- Noiseless Operation
- Compact in size
- Operating Temperature Range : 0 – 45 °C
- Humidity Range : 5% to 95% Non-Condensing
- Enclosure: ABS Bezel with Floor mounting and powder coated sheet metal cabinet

TESTING SPECIFICATION OF 650VA 12V DSP H-UPS EXIDE

S.N.	PARAMETERS	SPECIFICATION	REMARKS
1	No Load Current @ 12 V DC	≤ 2.2 Amp	
2	Output Voltage (No Load) @ 12 VDC	220V ± 7V	
3	Full Load Output Voltage @ 10.8V- 12V DC	180V - 220V	
4	Out Put Frequency No Load-Full Load	50 Hz ± 1 Hz	
5	Full Load Battery Current	41Amp ± 1Amp	
6	No Load Current @ Switch Off	<150mA	
7	Fan Run @ Load & Temperature dependent	should be OK	
	MAINS MODE		
(A)	**UPS MODE**		
1	Low Cut Voltage	180V ± 10V	
2	Low Cut Recovery	190V ± 10V	
3	High Cut	260V ± 10V	
4	High Cut Recovery	255V ± 10V	
5	Change Over Mains to UPS	≤ 10ms	
6	Change Over UPS to Mains	≤ 10ms	
(B)	**NORMAL MODE**		
1	Low Cut Voltage	100V ± 10V	
2	Low Cut Voltage Recovery	110V ± 10V	
3	High Cut	280V ± 10V	
4	High Cut Recovery	275V ± 10V	
5	Change Over Mains to INVERTER	≤ 40ms	
6	Change Over INVERTER to Mains	≤ 10ms	
(C)	**CHARGING MODE**		
1	Charging Current @ 220VAC (HC)	13A ± 1A	
2	Charging Current @ 220VAC (EC)	11A ± 1A	
3	Charging Current @ 220VAC (NC)	9A ± 1A	
4	Boost Charging Voltage (HC)	14.4V ± 0.2V	
5	Boost Charging Voltage (EC)	14.4V ± 0.2V	
6	Boost Charging Voltage (NC)	14.4V ± 0.2V	
7	Float Charging Voltage (HC)	13.7V ± 0.2V	
8	Float Charging Voltage (EC)	13.7V ± 0.2V	
9	Float Charging Voltage (NC)	13.7V ± 0.2V	
(D)	**PROTECTIONS**		
1	Over Load Protection	> 42Amp	
		6 Auto Retries Shut Down after 6 Retries	
2	Over Load Shut Down Reset	Through On/Off Switch & Mains	
3	Battery Low Alarm @	10.8V ± 0.2V	
4	Battery Low Protection	10.5V ± 0.2V 4 Auto Retries Shut Down after 4 Retries	
5	Battery Low Shut Down Reset	Through ON/OFF Switch & Mains	
6	Over Temperature alarm	Should be OK	
	Over Temperature Protection @ Heat Sink	85℃ ± 5℃	
7	Short Circuit (Mains Mode)	Main Fuse Blow	
8	Short Circuit Protection (Battery Mode)	Should be OK	
9	Short Circuit Retry	Yes 1Retry	
10	Short Circuit Reset	Through On/Off Switch & Mains	
11	Permanent Short circuit (Batt. MODE)	Should be Ok	
12	Mains Fuse Trip	Should be Ok	
13	Electrolytic sensor function	Should be Ok	

TESTING SPECIFICATION OF 850VA 12V DSP H-UPS EXIDE

S.N.	PARAMETERS	SPECIFICATION	REMARKS
1	No Load Current @ 12 V DC	≤ 2.2 Amp.	
2	Output Voltage (No Load) @ 12 VDC	220V ± 7V	
3	Full Load Output Voltage @ 10.8V- 12V DC	180V - 220V	
4	Out Put Frequency No Load-Full Load	50 Hz ± 1 Hz	
5	Full Load Battery Current	53Amp. ± 1Amp.	
6	No Load Current @ Switch Off	<150mA	
7	Fan Run @ Load & Temperature dependent	should be OK	
	MAINS MODE		
(A)	**UPS MODE**		
1	Low Cut Voltage	180V ± 10V	
2	Low Cut Recovery	190V ± 10V	
3	High Cut	260V ± 10V	
4	High Cut Recovery	255V ± 10V	
5	Change Over Mains to UPS	≤ 10ms	
6	Change Over UPS to Mains	≤ 10ms	
(B)	**NORMAL MODE**		
1	Low Cut Voltage	100V ± 10V	
2	Low Cut Voltage Recovery	110V ± 10V	
3	High Cut	280V ± 10V	
4	High Cut Recovery	275V ± 10V	
5	Change Over Mains to INVERTER	≤ 40ms	
6	Change Over INVERTER to Mains	≤ 10ms	
(C)	**CHARGING MODE**		
1	Charging Current @ 220VAC (HC)	13A ± 1A	
2	Charging Current @ 220VAC (EC)	11A ± 1A	
3	Charging Current @ 220VAC (NC)	9A ± 1A	
4	Boost Charging Voltage (HC)	14.4V ± 0.2V	
5	Boost Charging Voltage (EC)	14.4V ± 0.2V	
6	Boost Charging Voltage (NC)	14.4V ± 0.2V	
7	Float Charging Voltage (HC)	13.7V ± 0.2V	
8	Float Charging Voltage (EC)	13.7V ± 0.2V	
9	Float Charging Voltage (NC)	13.7V ± 0.2V	
(D)	**PROTECTIONS**		
1	Over Load Protection	> 54Amp.	
		6 Auto Retries Shut Down after 6 Retries	
2	Over Load Shut Down Reset	Through On/Off Switch & Mains	
3	Battery Low Alarm @	10.8V ± 0.2V	
4	Battery Low Protection	10.5V ± 0.2V 4 Auto Retries Shut Down after 4 Retries	
5	Battery Low Shut Down Reset	Through On/Off Switch & Mains	
6	Over Temperature alarm	Should be OK	
	Over Temperature Protection @ Heat Sink	85℃ +/-5℃	
7	Short Circuit (Mains Mode)	Main Fuse Blow	
8	Short Circuit Protection (Battery Mode)	Should be OK	
9	Short Circuit Retry	Yes 1Retry	
10	Short Circuit Reset	Through On/Off Switch & Mains	
11	Permanent short circuit (Batt. MODE)	Should be Ok	
12	Mains Fuse Trip	Should be Ok	
13	Electrolytic sensor function	Should be Ok	

TESTING SPECIFICATION 1050VA 12V DSP H-UPS EXIDE

S.N.	Parameter	SPECIFICATION	REMARKS
1	No Load Current @ 12 V DC	≤ 2.4 Amp.	
2	Output Voltage (No Load) @ 12 VDC	220V ± 7V	224V ± 4V For PCB Tuning
3	Full Load Output Voltage @ 10.8V - 12V DC	180V - 220V	
4	Out Put Frequency No Load-Full Load	50 Hz +/- 1 Hz	
5	Full Load Battery Current	65Amp. ± 1Amp.	
6	No Load Current @ Switch Off	<150mA	
7	Fan Run @ >50% Load & Temperature depender	should be OK	
	MAINS MODE		
(A)	UPS MODE		
1	Low Cut Voltage	180V ± 10V	
2	Low Cut Recovery	190V ± 10V	
3	High Cut	260V ± 10V	
4	High Cut Recovery	255V ± 10V	
5	Change Over Mains to UPS	≤ 10ms	
6	Change Over UPS to Mains	≤ 10ms	
(B)	NORMAL MODE		
1	Low Cut Voltage	100V ± 10V	
2	Low Cut Voltage Recovery	110V ± 10V	
3	High Cut	280V ± 10V	
4	High Cut Recovery	275V ± 10V	
5	Change Over Mains to INVERTER	≤ 40ms	
6	Change Over INVERTER to Mains	≤ 10ms	
(C)	CHARGING MODE		
1	Charging Current @ 220VAC (HC)	13A ± 1A	
2	Charging Current @ 220VAC (EC)	11A ± 1A	
3	Charging Current @ 220VAC (NC)	9A ± 1A	
4	Boost Charging Voltage (HC)	14.4V ± 0.2V	
5	Boost Charging Voltage (EC)	14.4V ± 0.2V	
6	Boost Charging Voltage (NC)	14.4V ± 0.2V	
7	Float Charging Voltage (HC)	13.7V ± 0.2V	
8	Float Charging Voltage (EC)	13.7V ± 0.2V	
9	Float Charging Voltage (NC)	13.7V ± 0.2V	
(D)	PROTECTIONS		
1	Over Load Protection	> 66Amp ± 1Amp	
		6 Auto Retries Shut Down after 6 Retries	
2	Over Load Shut Down Reset	Through On/Off Switch & Mains	
3	Battery Low Alarm	10.8 V ± 0.2V	
4	Battery Low Protection	10.5V ± 0.2V 4 Auto Retries Shut Down after 4 Retries	
5	Battery Low Shut Down Reset	Through On/Off Switch & Mains	
6	Over Temperature alarm	Should be OK	
	Over Temperature Protection @ Heat Sink	85°C +/-5°C	
7	Short Circuit (Mains Mode)	Main Fuse Blow	
8	Short Circuit Protection (Battery Mode)	Should be OK	
9	Short Ckts Retry	Yes 1Retry	
10	Short Ckts Reset	Through On/Off Switch & Mains	
11	Permanent short circuit (Batt. MODE)	Should be Ok	
12	Mains Fuse Trip	Should be Ok	
13	Electrolytic sensor function	Should be Ok	

TESTING SPECIFICATION OF 1450VA 24V DSP H-UPS EXIDE

S.N.	Parameter	SPECIFICATION	REMARKS
1	No Load Current @ 24 V DC	≤ 2.2 Amp.	
2	Output Voltage (No Load) @ 24 VDC	220V ± 7V	
3	Full Load Output Voltage @ 21.6V- 24V DC	180V - 220V	
4	Out Put Frequency No Load-Full Load	50 Hz ± 1 Hz	
5	Full Load Battery Current	46Amp. ± 1Amp.	
6	No Load Current @ Switch Off	< 150mA	
7	Fan Run @ >50% Load & Temperature depender	should be OK	
	MAINS MODE		
(A)	UPS MODE		
1	Low Cut Voltage	180V ± 10V	
2	Low Cut Recovery	190V ± 10V	
3	High Cut	260V ± 10V	
4	High Cut Recovery	255V ± 10V	
5	Change Over Mains to UPS	≤ 10ms	
6	Change Over UPS to Mains	≤ 10ms	
(B)	NORMAL MODE		
1	Low Cut Voltage	100V ± 10V	
2	Low Cut Voltage Recovery	110V ± 10V	
3	High Cut	280V ± 10V	
4	High Cut Recovery	275V ± 10V	
5	Change Over Mains to INVERTER	≤ 40ms	
6	Change Over INVERTER to Mains	≤ 10ms	
(C)	CHARGING MODE		
1	Charging Current @ 220VAC (HC)	13A ± 1A	
2	Charging Current @ 220VAC (EC)	11A ± 1A	
3	Charging Current @ 220VAC (NC)	9A ± 1A	
4	Boost Charging Voltage (HC)	28.8V ± 0.4V	
5	Boost Charging Voltage (EC)	28.8V ± 0.4V	
6	Boost Charging Voltage (NC)	28.8V ± 0.4V	
7	Float Charging Voltage (HC)	27.4V ± 0.4V	
8	Float Charging Voltage (EC)	27.4V ± 0.4V	
9	Float Charging Voltage (NC)	27.4V ± 0.4V	
(D)	PROTECTIONS		
1	Over Load Protection	> 47Amp	
		6 Auto Retries Shut Down after 6 Retries	
2	Over Load Shut Down Reset	Through On/Off Switch & Mains	
3	Battery Low Alarm	21.6 V ± 0.4V	
4	Battery Low Protection	21.0V ± 0.4V 4 Auto Retries Shut Down after 4 Retries	
5	Battery Low Shut Down Reset	Through On/Off Switch & Mains	
6	Over Temperature alarm	Should be OK	
	Over Temperature Protection @ Heat Sink	85°C +/-5°C	
7	Short Circuit (Mains Mode)	Main Fuse Blow	
8	Short Circuit Protection (Battery Mode)	Should be OK	
9	Short Circuit Retry	Yes 1Retry	
10	Short Circuit Reset	Through On/Off Switch & Mains	
11	Permanent Short Circuit (Batt. MODE)	Should be Ok	
12	Mains Fuse Trip	Should be Ok	
13	Electrolytic sensor function	Should be Ok	

HKVA
Solar Hybrid Inverter

Techinical Specifications of Solar Inverter (Higher KVA)

DESCRIPTION		SPECIFICATION				
Inverter Rating	:	2.0KVA	2.5KVA	3.0KVA	3.5KVA	5.2KVA
Operating Battery Voltage	:	24V DC Nominal	36V DC Nominal	-	-	-
		-	48V DC Nominal	48V DC Nominal	48V DC Nominal	48V DC Nominal
Solar Input Voltage	:	32VDC - 50VDC	48VDC - 75VDC	-	-	-
		-	64VDC - 100VDC	64VDC - 100VDC	64VDC - 100VDC	64VDC - 100VDC
Rating of Charge Controller	:	50Amp	40Amp/ 70Amp			
Solar Charging Current	:	40Amp ± 5Amp	30Amp ± 5Amp			
Maximum Solar Input (Watt)	:	1500Wp	1800Wp/ 3150Wp	2400Wp/ 4200Wp	2400Wp/ 4200Wp	2400Wp/ 4200Wp
Solar Charge Controller Type	:	PWM True Hybrid Solar Charge Controller				
Back-up mode nominal AC Volt Regulation	:	220V ± 7V (Factory Settable)				
Back-up mode nominal Frequency Regulation	:	50Hz ± 1Hz				
Wave Shape	:	Sinusoidal even in inductive load like Fan, Tubelight etc.				
Design	:	Advance MOSFET Based Topology				
Soft Start	:	Preferable				
Inverter Surge Ouput Rating	:	300% for 1 secs				
Peak Efficiency	:	>85% at Nominal Battery Voltage at 25 ^{0}C				
Total Harmonics Distortion (THD)	:	< 5% at Linear Load				
No Load Current	:	≤ 2.2Amp	≤ 2.0Amp			
Overload	:	> 100% load applied				
Overload Retries	:	Sleep mode after 6 auto retries				
Mains Voltage Range (Wide Band Mode)	:	90V - 300V	100V - 280V			
Mains Voltage Range (Nerrow Band Mode)	:	180V - 260V				
Output Voltage at Mains Mode	:	Same as Mains Input Voltage				
Output Frequency at Mains Mode	:	50Hz ± 1Hz				
Charging Current (If connected to Mains/ Grid Power)	:	HC = 20Amp ± 1Amp NC = 14Amp ± 1Amp	HC = 15Amp ± 1Amp NC = 12Amp ± 1Amp			HC = 22Amp ± 1Amp NC = 18Amp ± 1Amp
In-built Protection	:	Output Short Circuit, Overload, Over Charge, Deep Discharge, Battery Reverse Polarity, Mains Output Short Circuit, PV Reverse Protection, Reverse Current Flow Protection (Battery to Solar), Heat-up				
Display Type	:	Tri Color LCD Display 1. Yellow Green Color Backlight : While Back-up ON 2. Bright Green Color Backlight : While Charging 3. Red Color Backlight : While Protection				
Display Fuction	:	Actual Battery Voltage, Actual Mains Input Voltage, Actual Applied Load in %age, Charging & Discharging Status, Availability & Non Availability of Solar, Battery Low or Over Charge Protection, PV Reverse Protection, AC Fuse Trip Protection, Output AC Short Circuit, Overload, Over Temperature etc.				
Audible Alarm	:	Overload, Battery Low, Short Circuit, PV Reverse, Over Temperature, Battery Over Charge, AC MCB Trip				
Operating Temperature	:	0^{0}C - 45 ^{0}C				
Humidity	:	5% to 95% Non-Condensing				
Enclosure	:	ABS Bezel with floor mounting powder coated sheet metal cabinet				

Features of EXIDE HKVA Models

(Rating - EXIDE 2.5KVA 36V, EXIDE 2.5KVA 48V, EXIDE 3.5KVA 48V, EXIDE 5.2KVA 48V, EXIDE 5.2KVA 96V, EXIDE 7.5KVA 120V, EXIDE 10KVA 180V & EXIDE 12KVA 192V):

- Pure Sine Wave Output Wave Form same as Grid
- DSP Based Advance MOSFET Topology
- ASIC (Auto Sense Intelligent Control) Technology i.e. Automatically Sense Battery Condition & adjust Charging Current accordingly and thus increases Battery life and minimizes water topping.
- Program in-built cooling fan which is operated as needed
- Dual State of Battery Charging i.e. HC & NC
- Try Color of LCD Display

  Yellow Green Backlight : For Back-up Mode Operation
  Bright Green Backlight : For Mains Mode Operation
  Red Backlight : For Any Protection
- **Display Functions:** Actual Battery Voltage, Actual Mains Input Voltage, Actual Applied Load in %age, Charging & Discharging Status, Battery Low or Over Charge Protection, AC Fuse Trip Protection, Output AC Short Circuit, Overload, Over Temperature etc.
- Copper Power Tranformer in-built
- Manual Mains Bypass Facility
- Fast Swicthover Time i.e. <10 msecs from Mains to Back-up or vice versa in UPS/ Nerrow Band Mode
- Extreamely Low Total Harmonics Distotion i.e. < 3% at leaner load
- Reverse Phase Protection in-built
- Wide Charging Range in Normal Mode/ Wide Band Mode i.e. 100V to 280V AC
- In-built Protections: Output Short Circuit, Overload, Over Charge, Deep Discharge, Battery Reverse Polarity,
- Mains Output Short Circuit, Heat-up etc.
- Noiseless Operation
- Operating Temperature Range : 0 – 45 °C
- Humidity Range : 5% to 95% Non-Condensing
- Enclosure: ABS Bezel with Floor mounting and powder coated sheet metal cabinet

Technical Specification of 24V, 30A PWM Charge Controller
(Inbuilt into the Inverter)

System Voltage	12 V	24 V
Max. charge current	30 A	30 A
Float Charge	13.7 V (25°C)	27.4 V (25°C)
Boost Charge	14.4 V (25°C), 2h Activation: Battery Voltage < 12.3 V	28.8 V (25°C), 2h Activation: Battery Voltage < 24.6 V
Equalization	14.8 V (25°C), 2h Activation: Battery Voltage < 12.1 V	29.6 V (25°C), 2h Activation: Battery Voltage < 24.2 V
Deep discharge protection: State-of-charge dependent voltage dependent reconnect level	11.4 -11.9 V 11.0 V 12.8 V	22.8 -23.8 V 22.0 V 25.6 V
Over Voltage Protection	15.5.0 V	31.0 V
Under Voltage Protection	10.5.0 V	21.0 V
Max Panel Voltage (Overvoltage protection by varistor)	25 V in 24 V system	50 V in 24 V system
Temperature Compensation (Charge Voltage)	-25 mV/K at 12 V	-25 mV/K at 12 V -50 mV/K at 24 V
Max. Own Consumption	< 8 mA	< 4 mA
Grounding	Positive Grounding Possible	Positive Grounding Possible
Ambient Temperature	-40 to + 50°C	-40 to + 50°C
Max. Height	4,000 m above sea level	4,000 m above sea level
Battery Type	Lead acid (GEL, AGM, Flooded)	Lead acid (GEL, AGM, Flooded)
Wire Cross Section	Up to 16 mm^2	Up to 16 mm^2
Weight	160 g/inbuilt into PCU	160 g/inbuilt into PCU
Dimensions (W x H x D)	80 x 100 x 32 mm (approx) / Inbuilt into Inverter	80 x 100 x 32 mm (approx) / Inbuilt into Inverter
Type of Protection	IP21	IP21

QUICK
NOTES

QUICK
NOTES

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