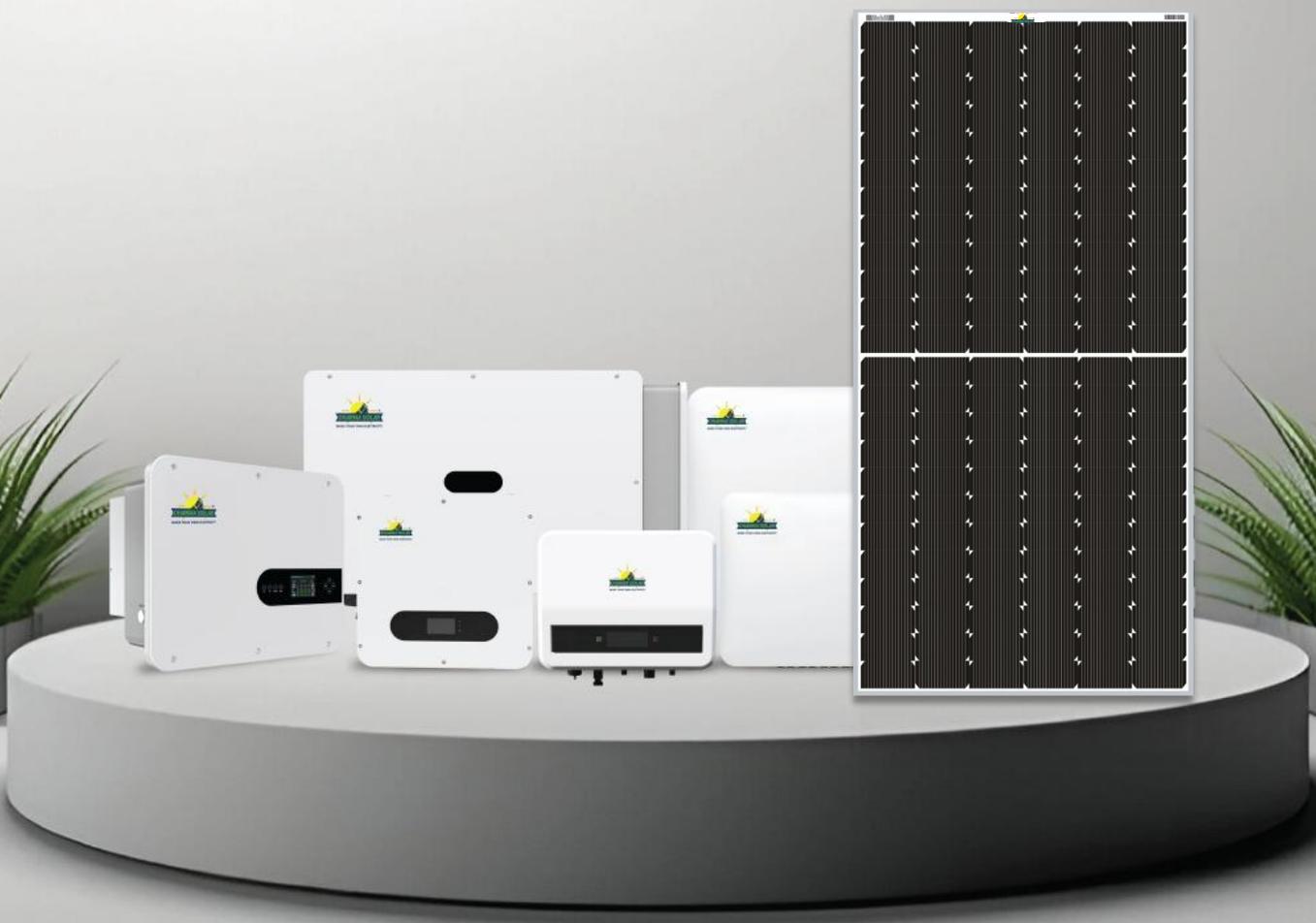




DHARMA SOLAR
MAKE YOUR OWN ELECTRICITY



About Dharma Solar

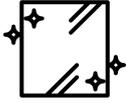
- ✓ **A Established in 2012, with over 13+ years of experience in the solar industry.**
- ✓ **Successfully installed 1000+ solar systems across residential, commercial, and industrial sectors.**
- ✓ **A professionally managed renewable energy company focused on innovative and sustainable solar solutions. Expertise in design, supply, installation, commissioning, and maintenance of solar power projects.**
- ✓ **Specialization in residential, commercial, and industrial solar systems, including tin shed & elevated structures.**
- ✓ **Strong focus on safety & reliability with advanced earthing and lightning protection systems.**
- ✓ **End-to-end turnkey solutions ensuring cost-effectiveness and high performance.**
- ✓ **Supporting Government of India's renewable energy mission and subsidy schemes.**
- ✓ **Dedicated team of professionals ensuring timely execution and quality assurance.**
- ✓ **Committed to after-sales service and long-term customer satisfaction.**
- ✓ **Driving the vision of a greener, energy-efficient, and sustainable future.**

**Registered
Vendor under
PM Surya Ghar
& MNRE**

**Support for
Government
Subsidy &
Documentation**

**MNRE-Approved
Quality Products
& Reliable
Installation**

590-630WP TOPCon N-type



**590Wp – 630Wp N-Type TOPCon
Bifacial (Glass to Glass)**



**30% Higher Power Output compared
to P-Type Module**



**Non-Destructive Laser Cutting
Technology**



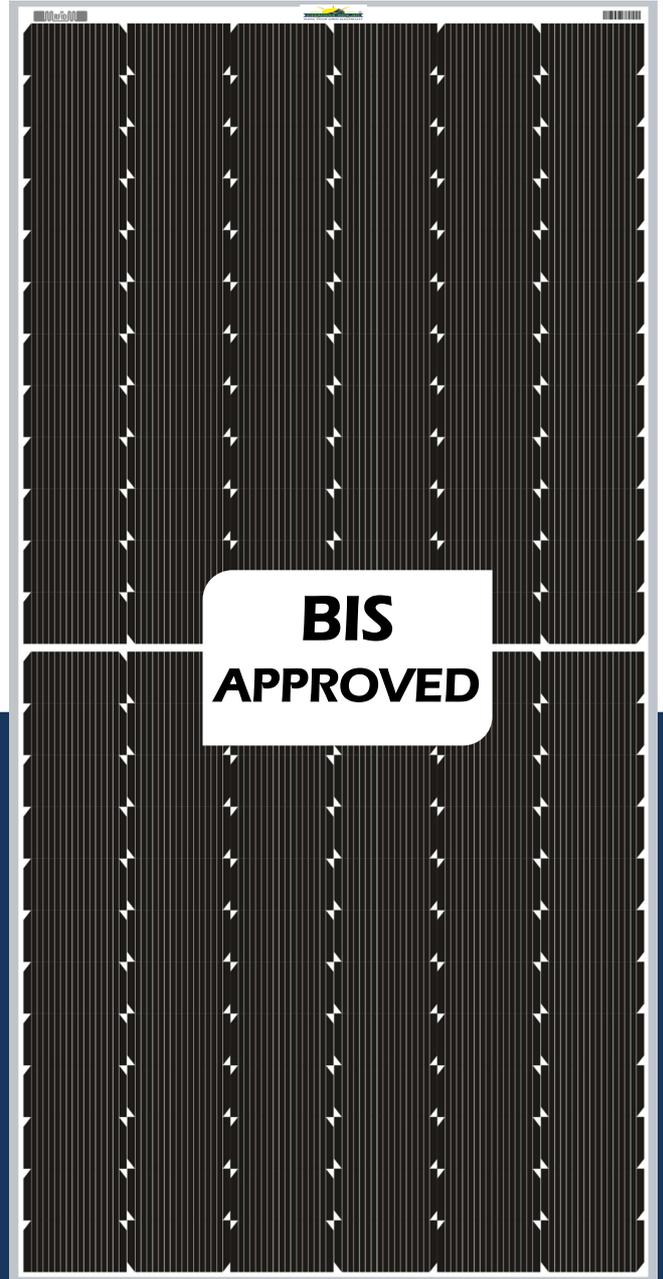
30 Years Power Output Warranty



**Strong Mechanical Design (2mm
Tempered Glass + IP68 Junction Box)**



**High Snow (5400 Pa) & Wind Load
(2400 Pa) Tolerance**



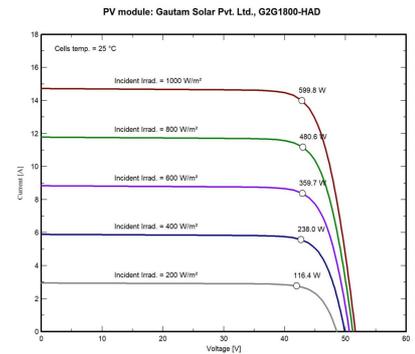
**Excellent low
light
performance for
higher yield.**

**Compatible with
large-scale solar
plants and rooftop
systems.**

**Anodized aluminum
frame for strength
and corrosion
resistance.**

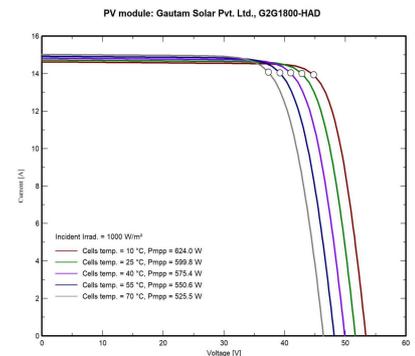
*(STC)-1000W/m2 irradiance, Air Mass 1.5 25 degree C cell temperature

Electrical Data STC	G2G1770-HAD	G2G1785-HAD	G2G1800-HAD
Peak Power Output - Pmax (Wp)	590	595	600
Power Output Tolerance (Wp)	0~+5	0~+5	0~+5
Open Circuit Voltage - Voc (V)	51.34	51.49	51.64
Maximum Power Voltage - Vmpp (V)	42.67	42.82	42.97
Short Circuit Current - Isc (A)	14.59	14.66	14.72



*(NOCT)-800W/m2 irradiance, Air Mass 1.5 20 degree C cell temperature and Wind Speed 1m/s

Electrical Data NOCT			
Peak Power Output - Pmax (Wp)	438.37	442.09	445.8
Open Circuit Voltage - Voc (V)	47.75	47.89	48.03
Maximum Power Voltage - Vmpp (V)	39.04	39.18	39.32
Short Circuit Current - Isc (A)	11.85	11.9	11.95
Maximum Power Current - Imp (A)	11.23	11.29	11.34



Mechanical data	Value
Solar Cells per Module (Units)	144
Cells Configuration (Matrix)	12x6 12x6
Cell Size (mm)	91.8 x 182.2
Length (L) × Width (W) × Thickness (T) in mm	2278 × 1134 × 30
Area of module (sq-m)	2.583252
Weight of module (kg)	33.5 ± 5%
Solar Cell Type	N-Type 16BB TOPCon (183.75 × 182.2)
Junction Box	IP68 rated Split Junction Box with Individual Bypass Diode
Connector	IP68 rated MC4 Compatible
Front Cover (Glass)	2.0 mm Low Iron High Transmission AR Coated Tempered Glass
Back Cover (Backsheet)	2.0 mm Low Iron Solar Textured Glass
Encapsulant	PID Free and UV Resistant
Frame	Anodized Aluminum Frame
Application Class Rating	Class A
Safety Class Rating	Class II
Fire Safety	Class C
Mechanical Load	Snow Load 5400 Pa, Wind Load 2400 Pa
Cable Type	4 mm ²
Cable Length	≥300 mm

Temperature rating	
NOCT	45°C ± 2°C
Temperature Coefficient of Pmax	-0.30% / °C
Temperature Coefficient of Voc	-0.26% / °C
Temperature Coefficient of Isc	0.04% / °C
Operating Temperature Range	-40°C to +85°C

Electrical Ratings	
Maximum System Voltage	1500V DC
Maximum Series Fuse	30A



SINGLE PHASE SOLAR GTI

(2.3 KW | 3 KW | 3.4 KW | 3.6 KW | 4 KW | 4.4 KW)



Big LCD Display



Power Export Limit



Compact & Easy To Install



Wifi | GPRS | Lan Communication
Optional

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SOLAR GRID TIED INVERTER

TECHNICAL DATA

(CP-2300L TO CP-4400L)

DHARMA SOLAR EXPERT

DESIGNED FOR INDIA

MODEL NO.	CP-2300L	CP-3000L	CP-3400L	CP-3600L	CP-4000L	CP-4400L
DC Side Input Parameters						
Max. DC Power (w)	2875	3750	4250	4500	5000	5500
Max. Allowable DC Volatage (VDC) Max. DC Voltage (VDC)	275/550	320/550	320/550	320/550	385/550	450/550
Min. System Start Shut Down Voltage (VDC)	50/100	75/100	50/100	50/100	50/100	50/100
Max. Input Current (A)	18	18	18	18	18	18
Number Of MPP Tracker Total Nos. Of String	1/1	1/1	1/1	1/1	1/1	1/1
Input Terminal Type	MC4					
AC Side Output Parameters						
Rated Output Power (W)	2300	3000	3400	3600	4000	4400
Maximum Output Power (VA)	2300	3000	3400	3600	4000	4400
Nominal Output Voltage/Range (V)	L/N/PE,240/180-310Vac					
AC Grid Frequency/Range (Hz)	50Hz / 45Hz-55Hz					
Max. Output Current (A)	9.5	12.5	14.2	16	16.8	18.3
AC Connection (With PE)	Single Phase					
Current Distortion (THDi)	<1.5%	<1.5%	<1.5%	<1.5%	<1.5%	<1.5%
Power Factor	>0.99 (Adjustable From 0.8 Leading To 0.8 Lagging)					
Efficiency						
Maximum Conversion Efficiency	97.3%	97.3%	97.4%	97.5%	97.8%	97.8%
European Efficiency	97%	97.1%	97.2%	97.2%	97.3%	97.3%
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Safety & Protection						
DC Reverse-Polarity Protection	YES					
Anti-Islanding / Overvoltage Protection	YES					
Shortcut Circuit Protection	YES					
Leakage Current Protection	YES					
Grid Monitoring / Ground Fault Monitoring	YES					
DC/AC Side SPD (Thermally Protected)	YES					
General Parameters						
Dimension (L/W/H) (Mm)	340/270/127					
Weight (Kg)	7 KG					
Embedded DC Switch	Optional					
Night Power Consumption (W)	<0.2					
Isolation Type	Transformerless					
Protection Degree	IP66 According To IEC60529					
Operation Temperature (°C)	-25 - +60					
Cooling Concept	Natural Convection + Fan Cooling (12000 RPM)					
Operating Altitude (M)	<2000m Without Power Derating					
Acoustic Noise Level (DB)	35 DB					
Display	Graphic LCD					
Communication Interface	Standard WIF; RS485 (Optional)					
Warranty	10 Years ; 25 Years For Optional					





SINGLE PHASE SOLAR GTI (4.6 KW | 4.8 KW | 5 KW | 5.3 KW | 5.5 KW | 6 KW)



Big LCD Display



Power Export Limit



Compact & Easy To Install



Wifi | GPRS | Lan Communication
Optional

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SOLAR GRID TIED INVERTER

TECHNICAL DATA

(CP-4600L TO CP-6000L)

DHARMA SOLAR EXPERT

DESIGNED FOR INDIA

MODEL NO.	CP-4600L	CP-4800L	CP-5000L	CP-5300L	CP-5500L	CP-6000L
DC Side Input Parameters						
Max. DC Power (w)	5750	6000	6250	6625	6875	7500
Max. Allowable DC Volatage (VDC) Max. DC Voltage (VDC)	500/550	500/550	550/550	550/550	550/550	550/550
Min. System Start Shut Down Voltage (VDC)	50/100	75/100	50/100	50/100	50/100	50/100
Max. Input Current (A)	22	22	22	22	22	22
Number Of MPP Tracker Total Nos. Of String	1/1	1/1	1/1	1/1	1/1	1/1
Input Terminal Type	MC4					
AC Side Output Parameters						
Rated Output Power (W)	4600	4800	5000	5300	5500	6000
Maximum Output Power (VA)	4600	4800	5000	5300	5500	6000
Nominal Output Voltage/Range (V)	L/N/PE,240/180-310Vac					
AC Grid Frequency/Range (Hz)	50Hz / 45Hz-55Hz					
Max. Output Current (A)	19.1	20	20.8	22	23	25
AC Connection (With PE)	Single Phase					
Current Distortion (THDi)	<1.5%	<1.5%	<1.5%	<1.5%	<1.5%	<1.5%
Power Factor	>0.99 (Adjustable From 0.8 Leading To 0.8 Lagging)					
Efficiency						
Maximum Conversion Efficiency	97.8%	97.5%	97.5%	97.5%	97.6%	97.6%
European Efficiency	97.3%	97.3%	97.2%	97.2%	97.3%	97.3%
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Safety & Protection						
DC Reverse-Polarity Protection	YES					
Anti-Islanding / Overvoltage Protection	YES					
Shortcut Circuit Protection	YES					
Leakage Current Protection	YES					
Grid Monitoring / Ground Fault Monitoring	YES					
DC/AC Side SPD (Thermally Protected)	YES					
General Parameters						
Dimension (L/W/H) (Mm)	340/270/127					
Weight (Kg)	8 KG					
Embedded DC Switch	Optional					
Night Power Consumption (W)	<0.2					
Isolation Type	Transformerless					
Protection Degree	IP66 According To IEC60529					
Operation Temperature (°C)	-25 - +60					
Cooling Concept	Natural Convection + Fan Cooling (12000 RPM)					
Operating Altitude (M)	<2000m Without Power Derating					
Acoustic Noise Level (DB)	35 DB					
Display	Graphic LCD					
Communication Interface	Standard WIFI; RS485 (Optional)					
Warranty	10 Years ; 25 Years For Optional					





THREE PHASE SOLAR GTI (18 KW | 20 KW | 25 KW)



Big LCD Display



Power Export Limit



Compact & Easy To Install



Wifi | GPRS | Lan Communication
Optional

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SOLAR GRID TIED INVERTER

TECHNICAL DATA

(CP-18HL TO CP-25HL)

DHARMA SOLAR EXPERT

DESIGNED FOR INDIA

MODEL NO.	CP-18HL	CP-20HL	CP-25HL
DC Side Input Parameters			
Max. DC Power (w)	25000	27000	30000
Rated Input Voltage (VDC) Max. DC Voltage (VDC)		1000VDC	
Min. System Start Shut Down Voltage (VDC)		160VDC	
MPPT Voltage Range (VDC)		160-850VDC	
Max. Input Current (A)	26A / 26A	26A / 26A	36A / 26A
Number Of MPP Trackers / Total Nos. Of String	2/4	2/4	2/4
Input Terminal Type		MC4	
AC Side Output Parameters			
Rated Output Power (W)	18000	20000	25000
Maximum Output Power (VA)	19800	22000	27500
Nominal Output Voltage/Range (V)		50/60 Hz; 400 Vac	
AC Grid Frequency/Range (Hz)		45/55 Hz; 280-490 Vac (Adj)	
Max. Output Current (A)	27.6	30	36
AC Connection (With PE)		Three Phase	
Current Distortion (THDi)	<1.5%	<1.5%	<1.5%
Power Factor		>0.99 (Adjustable From 0.8 Leading To 0.8 Lagging)	
Efficiency			
Maximum Conversion Efficiency	98.4%	98.4%	98.5%
European Efficiency	97.9%	97.9%	98.0%
MPPT Efficiency	99.9%	99.9%	99.9%
Safety & Protection			
DC Reverse Polarity Protection		YES	
Anti-Islanding / Overvoltage Protection		YES	
Shortcut Circuit Protection		YES	
Leakage Current Protection		YES	
Grid Monitoring / Ground Fault Monitoring		YES	
DC / AC Side SPD (Thermally Protected)		YES	
General Parameters			
Dimension (L/W/H) (mm)		520/510/155	
Weight (Kg)		23.65 KG	
Embedded DC Switch		Optional	
Night Power Consumption (W)		<0.2	
Isolation Type		Transformerless	
Protection Degree		IP 66 According To IEC60529	
Operation Temperature (°C)		-25 - +60	
Cooling Concept		Natural Convection + Fan Cooling (12000 RPM)	
Operating Altitude (M)		<2000m Without Power Derating	
Acoustic Noise Level (DB)		<25	
Display		Graphic LCD	
Communication Interface		Standard WIFI; RS485 (Optional)	
Warranty		10 Years ; 25 Years For Optional	





SINGLE PHASE HYBRID INVERTER



High Yield & Efficiency



Safe & Reliable



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SOLAR GRID TIED INVERTER

TECHNICAL DATA
(CPHYBD-3600G4 TO CPHYBD-6000G4)

DHARMA SOLAR EXPERT
DESIGNED FOR INDIA

MODEL NO.	CPHYBD-3600G4	CPHYBD-4000G4	CPHYBD-5000G4	CPHYBD-6000G4
PV (DC)				
Recommended Max. PV Input Power	4680 Wp	5200 Wp	6500 Wp	7800 Wp
Max. Input Voltage	500 V			
Start-up Voltage	125 V			
Rated Input Voltage	370 V			
MPPT Input Voltage Range	150-430 V			
MPPT Max. Input Current	16 V			
MPPT Short-Circuit Current	20 A			
No. Of MPPT	2			
No. Of Strings Per MPPT	1			
GRID (AC)				
Max. Input Apparent Power	7590 VA	7590 VA	7590 VA	9200 VA
Rated Output Power	3600 W	4000 W	5000 W	6000 W
Max. Output Apparent Power	3960 VA	4400 VA	5500 VA	6600 VA
Rated AC Voltage	L/N/PE, 220 / 230 / 240 V			
Input/Output Voltage Range	180-300 V			
Rated Output Voltage Frequency	50/60 Hz			
Input/Output Voltage Frequency Range	45-55 Hz			
Rated Output Current	15.7 A	17.4 A	21.7 A	26.1 A
Max. Input/Output Current	33/17.2 A	33/21.5 A	33/23.9 A	40/28.7 A
Power Factor (Rated)	>0.99			
Adjustable Power Factor Range	0.8 Leading To 0.8 Lagging			
Total Harmonic Distortion	<3% (Rated Power)			
Grid Connection Mode	L/N/PE			
AC Load Output (Off-Grid)				
Rated Output Power	3600 W	4000 W	5000 W	6000 W
Max. Output Apparent Power	3960 VA	4400 VA	5500 VA	6600 VA
Rated Output Voltage (L/N/PE)	240 V			
Output Voltage Range	200-240 V			
Rated Output Frequency	50 Hz			
Rated Output Current	15.7 A	17.4 A	21.7 A	26.1 A
Max. Output Current	17.2 A	21.5 A	23.9 A	28.7 A
Total Harmonic Distortion	<3% (R Load)			
On-Grid / Off-Grid Switching Time	<10 ms			
Battery (DC)				
Rated Output Power	3600 W	4000 W	5000 W	6000 W
Max. Charge / Discharge Power	3600 W	4000 W	5000 W	6000 W
Rated Voltage	48 V			
Battery Voltage Range	40-60 V			
Max. Charge / Discharge Current	90 A	110 A	120 A	135 A
Communication Port	CAN / RS485			
Efficiency				
Max. Efficiency	97.6%			
Max. MPPT Efficiency	99.9%			
Max. European Efficiency	96.5%			



SOLAR GRID TIED INVERTER

TECHNICAL DATA
(CPHYBD-3600G4 TO CPHYBD-6000G4)

DHARMA SOLAR EXPERT
DESIGNED FOR INDIA

MODEL NO.	CPHYBD-3600G4	CPHYBD-4000G4	CPHYBD-5000G4	CPHYBD-6000G4
Protection				
Integrated Protection	Anti-Flow Protection, DC Reverse Protection, DC Circuit Breaker, Insulation Resistor Detection, GFCI Leakage Current Monitoring, Output Shorted Protection, Output Over Current Protection, Grid Monitoring, Anti-Islanding Protection, Residual Current Monitoring, Off-Grid Overload Protection			
Surge Protection	DC Type , AC Type			
Display & Communication				
Display	LCD+LED+APP			
Communication	RS485, 4G (Optional), WiFi (Optional)			
General Data				
Dimension (WxHxD)	580x330x232 mm			
Weight	20.5 kg			
Operating Temperature Range	-25 - 60°C			
Noise	<35 dB			
Cooling	Smart Cooling			
Installation Style	Wall Mounted			
Protection Rating	IP65			
Warranty	10 Years			





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SOLAR GRID TIED INVERTER

TECHNICAL DATA
(CP-HYBD-5HLG4 TO CP-HYBD-12HLG4)

DHARMA SOLAR EXPERT
DESIGNED FOR INDIA

MODEL NO.	CP-HYBD-5HLG4	CP-HYBD-6HLG4	CP-HYBD-8HLG4	CP-HYBD-10HLG4	CP-HYBD-12HLG4
PV (DC)					
Recommended Max. PV Input Power	7500 Wp	9000 Wp	9000 Wp	12000 Wp	15000 Wp
Max. Input Voltage	1000 V				
Start-up Voltage	135 V				
Rated Input Voltage	600 V				
MPPT Input Voltage Range	135-900 V				
MPPT Max. Input Current	16 A / 16 A			16 A / 32 A	
MPPT Short-Circuit Current	20 A / 20 A			20 A / 40 A	
No. Of MPPT	2				
No. Of Strings Per MPPT	1/1			1/2	
GRID (AC)					
Max. Input Apparent Power	10000 VA	12000 VA	16000 VA	20000 VA	24000 VA
Rated Output Power	5000 W	6000 W	8000 W	10000 W	12000 W
Max. Output Apparent Power	5000 VA	6600 VA	8800 VA	11000 VA	13200 VA
Rated AC Voltage	3L/N/PE, 220/380 V, 230/400 V, 240/415 V				
Input/Output Voltage Range	180-300V / 200-253 V				
Rated Output Voltage Frequency	50/60 Hz				
Input/Output Voltage Frequency Range	45-55 Hz				
Rated Output Current	7.2 A	8.7 A	11.6 A	14.5 A	17.4 A
Max. Input/Output Current	15.2 A / 9.8 A	18.2 A / 11.8 A	24.2 A / 15.8 A	30.3 A / 19.7 A	36.4 A / 23.6 A
Power Factor (Rated)	>0.99				
Adjustable Power Factor Range	0.8 Leading To 0.8 Lagging				
Total Harmonic Distortion	<3% (Rated Power)				
Grid Connection Mode	3L/N/PE				
AC Load Output (Off-Grid)					
Rated Output Power	5000 W	6000 W	8000 W	10000 W	12000 W
Max. Output Apparent Power	5500 VA	6600 VA	8800 VA	11000 VA	13200 VA
Rated Output Voltage (L/N/PE)	3L/N/PE, 220/380 V, 230/ 400 V, 240/ 415 V				
Output Voltage Range	200-240 V				
Rated Output Frequency	50 Hz				
Rated Output Current	7.2 A	8.7 A	11.6 A	14.5 A	17.4 A
Max. Output Current	9.8 A	11.8 A	15.8 A	19.7 A	23.6 A
Total Harmonic Distortion	<3% (R Load)				
On-Grid / Off-Grid Switching Time	<10 ms				
Battery (DC)					
Rated Output Power	5000 W	6000 W	8000 W	10000 W	12000 W
Max. Charge / Discharge Power	12500 W / 5500 W	12500 W / 6600 W	12500 W / 8800 W	12500 W / 11000 W	12500 W / 13200 W
Battery Voltage Range	135-800V				
Max. Charge / Discharge Current	25 A / 25 A	25 A / 25 A	25 A / 25 A	25 A / 25 A	25 A / 25 A
Communication Port	CAN / RS485				
Efficiency					
Max. Efficiency	97.6%				
Max. MPPT Efficiency	99.9%				
Max. European Efficiency	97%				



SOLAR GRID TIED INVERTER

TECHNICAL DATA

(CP-HYBD-5HLG4 TO CP-HYBD-12HLG4)

DHARMA SOLAR EXPERT

DESIGNED FOR INDIA

MODEL NO.	CPHYBD-5HLG4	CPHYBD-6HLG4	CPHYBD-8HLG4	CPHYBD-10HLG4	CPHYBD-12HLG4
Protection					
Integrated Protection	Anti-Flow Protection, DC Reverse Protection, DC Circuit Breaker, Insulation Resistor Detection, Leakage Current Monitoring, Output Shorted Protected, Output Over Current Protection, Grid Monitoring, Anti-Islanding Protection, Residual Current Monitoring, Reverse Polarity Protection, Off Grid Overload Protection				
Surge Protection	DCType II, ACType II				
Display & Communication					
Display	LED+APP				
Communication	Yes: RS485 / USB, Optional: 4G / WIFI				
General Data					
Dimension (WxHxD)	516x442x222 mm				
Weight	24 kg				
Operating Temperature Range	-30 - 60°C				
Noise	<35 dB				
Cooling	Smart Cooling				
Installation Style	Wall Mounted				
Protection Rating	IP66				
Warranty	10 Years				



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