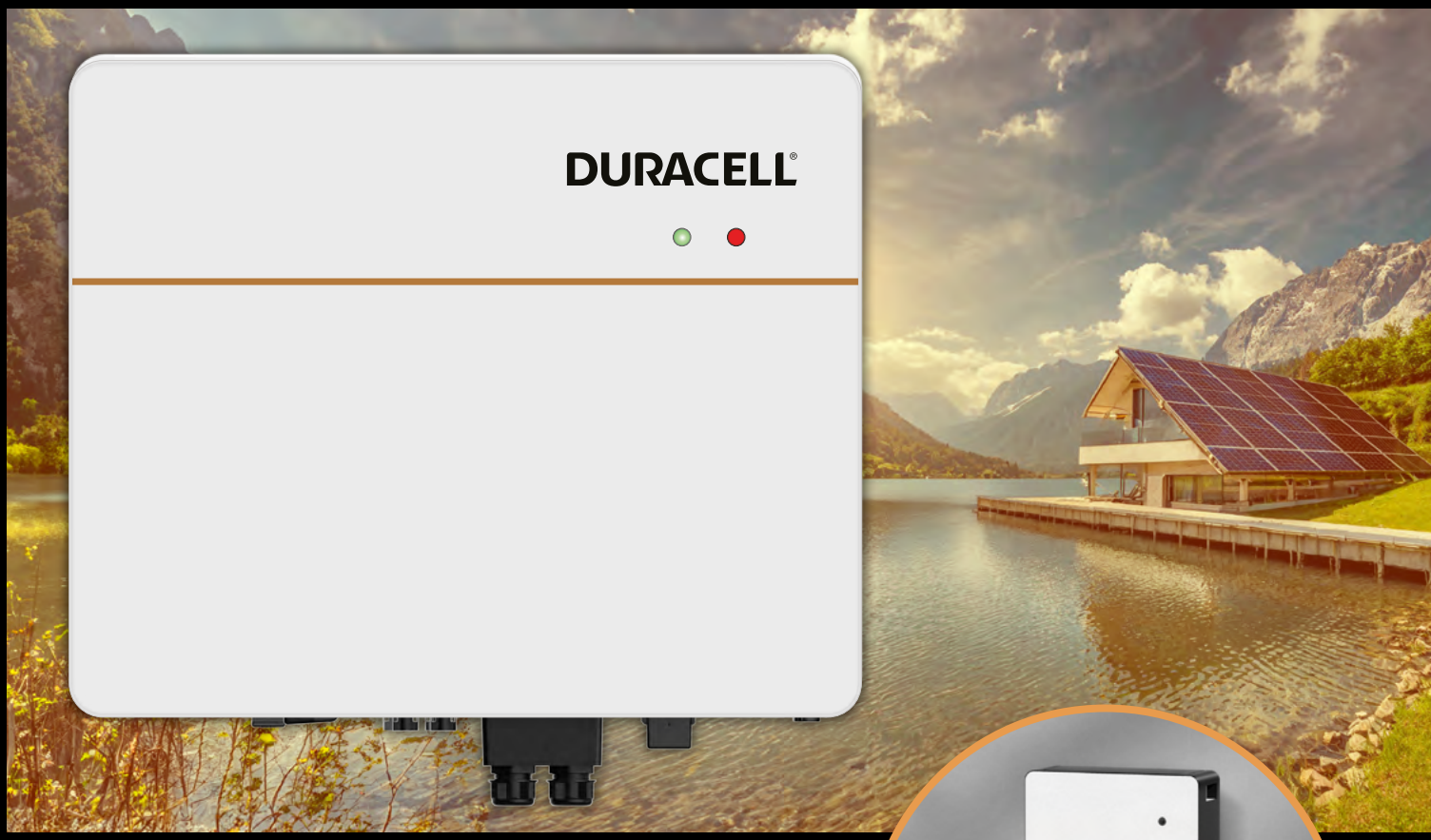
DURACELL®
ENERGY

Dura-i
Inverter



DURACELL5+ battery compatible with Dura-i

Dura-i Inverter
Model No. PD-DH1P-6K-G1

Key Inverter Features

- Hybrid & Connects as AC
- 9KWp of PV
- Integrated Energy Meter
- Modular - connect up to 6 inverters in parallel
- DURACELL5+ Battery compatible
- 10 Year warranty

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Dura-i Inverter - Technical Specification

Product	Dura-i Inverter
Model No.	**PD-DH1P-6K-G1**
Efficiency	
Max. efficiency (PV to AC)	97.30%
Eur. Efficiency (PV to AC)	96.8%
Max. efficiency (BAT to AC)	94.30%
Input (PV)	
Max. PV power (W)	9000W
Max. PV voltage (V)	550V
Max. input current (input A/input B) (A)	15A/15A
Max. short current (input A/input B) (A)	20A/20A
Start operating voltage (V)	90V
MPPT voltage range @full load (V)	70-540V
Max Power per MPPT (W)	4500W
No. of MPPT	2
String per MPPT	1
Input (BAT)	
Compatible battery type	Lithium-ion
Nominal battery voltage	48V
Battery voltage range	40V-65V
Max. charge/discharge current (A)	60A/60A
Max. charge/discharge power (W)	6,000W/6,000W
Lithium battery charge curve	Self-adaption to BMS
Output (Grid)	
Nominal AC output power (W)	6,000W
Max. AC output apparent power (VA)	6,000VA
Max. AC output power (PF=1) (W)	6,000W
Max. AC Output current (A)	27.2A
Rated AC voltage (V)	230V
AC voltage range (V)	150-300V (adjustable)
Rated grid frequency (Hz)	50/60
AC frequency range (Hz)	45-55 /55-65 (adjustable)
Grid connection	Single phase
Power factor	0.99 @rated power (adjustable 0.8 LG – 0.8 LD)
THDI	<3%
Output (Back up)	
Nominal output voltage (V)	230V
Nominal output frequency (Hz)	50/60Hz
Nominal output power (W)	6000W
Nominal output current (A)	26.1A
Peak Output Apparent Power (>1s)	9,000VA
Transfer Time (ms)	10ms (typ) /20ms (max)

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Dura-i Inverter - Technical Specification

Product	Dura-i Inverter
Model No.	**PD-DH1P-6K-G1**
THDV	<3% @100% R Load
Protection	
Protection category	Class I
DC switch	Yes
Anti-islanding protection	Yes
AC overcurrent protection	Yes
DC/AC overvoltage protection	Yes
AC short circuit protection	Yes
DC reverse protection	Yes
Surge arrester	DC Type III, AC Type III
Insulation detection	Yes
Leakage current protection	Yes
PV overvoltage category	II
AC overvoltage category	III
General	
Max. operation altitude (m)	4000m
Noise emission (DB)	<35
Ingress protection degree	IP65
Operating temperature range (°C)	-25°~60°
Relative humidity (%)	0~100%
Cooling concept	Natural Cooling
Mounting	Wall bracket
Dimensions (mm, W x H x D)	585 x 485 x 175mm
Weight (kg)	25kg
PV connection type	MC4/H4
Battery connection type	Dedicated DC connector
AC connection type	Dedicated AC connector
HMI & COM	
Display	LED + APP
Communication Interface	RS485/CAN (for BMS), RS485, USB, Ethernet, DRM/RS485 for meter, Optional: WiFi/LAN
Monitoring	
Monitoring	APP (OS/Android)
Certification	
Grid safety	IEC62109-1/-2, EN/IEC 61000-6-1/-2/-3/-4, G98/G99/G100
EMC	IEC61000-6-2/3
Warranty (years)	10 years

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