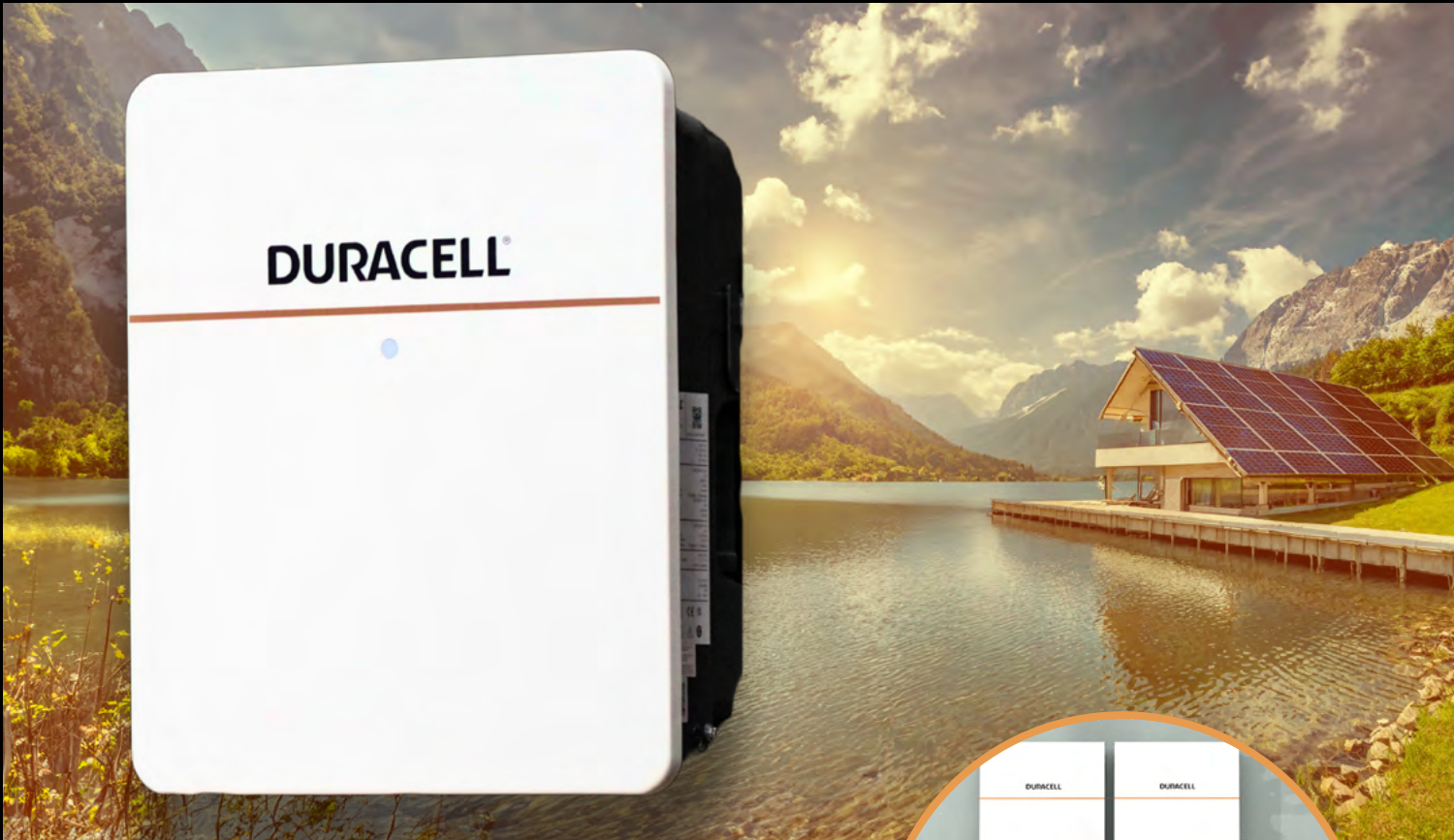


Dura-i G3 Inverter




**Dura5 battery
compatible with Dura-i G3**



Dura-i G3 Inverter

**Model Nos. PD-DH1P-3.6K-G3
PD-DH1P-4.6K-G3
PD-DH1P-5K-G3
PD-DH1P-6K-G3**

Key Inverter Features

-  Hybrid & Connects as AC
-  10KWp of PV
-  Integrated Energy Meter
-  Modular - connect up to 9 inverters in parallel
-  Dura5 Battery compatible
-  10 Year warranty

www.duracellenergy.com

V1.0

Dura-i G3 Inverter - Technical Specification

Product	Dura-i G3 Inverter			
Model No.	PD-DH1P-3.6K-G3	PD-DH1P-4.6K-G3	PD-DH1P-5K-G3	PD-DH1P-6K-G3
Efficiency				
Max. efficiency (PV to AC)	97.3%			
Eur. Efficiency (PV to AC)	96.8%			
Max. efficiency (BAT to AC)	94.3%			
Input (PV)				
Max. PV power (W)	10000W			
Max. PV voltage (V)	550V			
Max. input current (input A/input B) (A)	18A/18A			
Max. short current (input A/input B) (A)	25A/25A			
Start operating voltage (V)	90V			
MPPT voltage range @full load (V)	70-540V			
Max Power per MPPT (W)	5000W			
No. of MPPT	2			
String per MPPT	1/1			
Input (BAT)				
Compatible battery type	Lithium-ion			
Nominal battery voltage (V)	48V			
Battery voltage range (V)	40V-65V			
Max. charge/discharge current (A)	75A/75A	110A/110A	110A/110A	135A/135A
Max. charge/discharge power (W)	4,000W/4,000W	5,500W/5,500W	5,500W/5,500W	6,600W/6,600W
Lithium battery charge curve	Self-adaption to BMS			
Output (Grid)				
Nominal AC output power (W)	3,600W	4,600W	5,000W	6,000W
Max. AC output apparent power (VA)	3,960VA	4,600VA	5,500VA	6,600VA
Max. AC output power (PF=1) (W)	3,960W	4,600W	5,500W	6,600W
Max. AC output current (A)	18A	21A	25A	28.7A
Rated AC voltage (V)	230V			
AC voltage range (V)	215-253V			
Rated grid frequency (Hz)	50Hz			
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)	3,600W	4,600W	5,000W	6,000W
Rated output current (A)	15.7A	20A	21.7A	26.1A
Peak Output Apparent Power (>10s)	7,200VA	9,200VA	10,000VA	10,000VA
Transfer Time (ms)	10ms (typ)			
THDV	<3% @100% R Load			

Dura-i G3 Inverter - Technical Specification

Product	Dura-i G3 Inverter			
Model No.	PD-DH1P-3.6K-G3	PD-DH1P-4.6K-G3	PD-DH1P-5K-G3	PD-DH1P-6K-G3
Protection				
Protection category	Class I			
DC switch	Yes			
Anti-islanding protection	Yes			
AC overcurrent protection	Yes			
DC/AC overvoltage protection	DC Type II, AC Type III			
AC short circuit protection	Yes			
DC reverse protection	Yes			
Surge arrester	DC Type II, AC Type II			
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		Smart fan cooling	
Mounting	Wall bracket			
Dimensions (mm, W x H x D)	377 x 452 x 206mm			
Weight (kg)	20kg			
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	IEC 61727/62116/61683/60068, NRS 097-2-1, G98, G99, VDE4105, EN50549-1/-10, AS4777.2			
EMC	IEC61000 -1 & 2			
Warranty (years)	10 years			



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