

Dura-i Inverter



**Dura5 battery
compatible with Dura-i**



Dura-i Inverter

**Model Nos. PD-DH1P-3.6K-G1
PD-DH1P-4.6K-G1
PD-DH1P-5K-G1
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
-  Dura5 Battery compatible
-  10 Year warranty

Dura-i Inverter - Technical Specification

Product	Dura-i Inverter			
Model No.	PD-DH1P-3.6K-G1	PD-DH1P-4.6K-G1	PD-DH1P-5K-G1	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			
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	120A/120A	120A/120A	120A/120A
Max. charge/discharge power (W)	3,000W/3,000W	5,000W/5,000W	5,000W/5,000W	6,000W/6,000W
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	6,000VA
Max. AC output power (PF=1) (W)	3,960W	4,600W	5,500W	6,000W
Max. AC Output current (A)	18A	22A	25A	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)	3000W	4600W	5000W	6000W
Nominal output current (A)	13.1A	20A	21.7A	26.1A
Peak Output Apparent Power (>1s)	4,500VA	6,900VA	7,500VA	9,000VA
Transfer Time (ms)	10ms (typ) /20ms (max)			
THDV	<3% @100% R Load			

Dura-i Inverter - Technical Specification

Product	Dura-i Inverter			
Model No.	PD-DH1P-3.6K-G1	PD-DH1P-4.6K-G1	PD-DH1P-5K-G1	PD-DH1P-6K-G1
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/G100			
EMC	IEC61000-6-2/3			
Warranty (years)	10 years			

