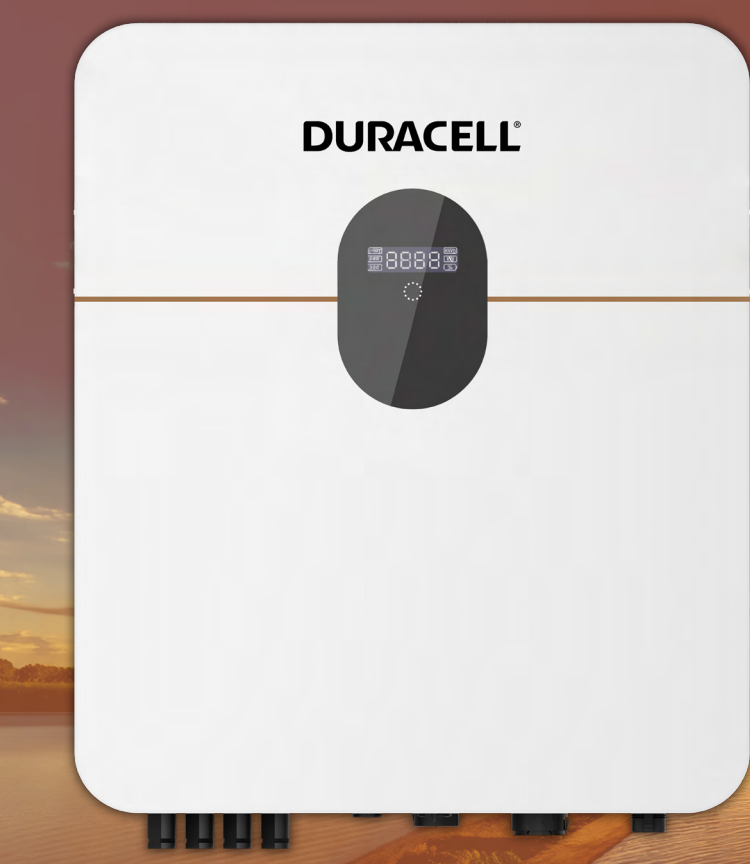


Dura-i (5-10k) HV

Three Phase High Voltage Inverter



**Dura5 HV battery compatible
with Dura-i HV Inverter**



Dura-i HV Inverter

**Model Nos. PD-DH3P-5K-G1
PD-DH3P-6K-G1
PD-DH3P-8K-G1
PD-DH3P-10K-G1**

Key Inverter Features

-  Fanless design & natural convection
-  Up to 150% PV oversize
-  Die cast aluminium enclosure
-  Max efficiency 98.4%
-  Dura5 HV Battery compatible

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V0.7

Dura-i HV Three Phase Inverter - Technical Specification

Product	Dura-i HV Three Phase Inverters 5-10K			
Model No.	PD-DH3P-5K-G1	PD-DH3P-6K-G1	PD-DH3P-8K-G1	PD-DH3P-10K-G1
PV (input)				
Max. recommended PV array power (Wp)	7500	9000	12000	15000
Max PV input voltage (V)	1000			
Rated PV input voltage (V)	600			
Start-up input voltage (V)	180			
MPPT voltage range (V)	150-950			
No. of MPPT/Strings per MPPT	2 (1/1)			2 (1/2)
Max PV input current (A)	32 (16 /16)			48 (16/32)
Max. DC short- circuit current (A)	40 (20/20)			60 (20/40)
Battery (input/output)				
Battery type	LiFePO4			
Battery voltage range (V)	150-600			
Max. charge/discharge current* (A)	30/30			
Max. charge/discharge power (W)	7500/6000	9000/7200	10600/10600	10600/10600
Grid (input/output)				
Max. AC power from grid (VA)	12500	15000	18600	20600
Rated AC output power (VA)	5000	6000	8000	10000
Max . AC output power (VA)	5500	6600	8800	10000
Max . AC output current (A)	8.4	10	13.3	16.7
Rated AC voltage (V)	3/N / PE, 220 / 380; 230 / 400; 240 / 415			
AC voltage range (V)	270-480			
Rated grid frequency (Hz)	50/60			
Grid frequency range (Hz)	45-55 / 55-65			
Total harmonic distortion (THDi, rated power) (%)	<3			
Power factor at rated power/Adjustable power factor	>0.99 / 0.8 leading to 0.8 lagging			
Backup (output)				
Rated voltage (V)	3/N/PE, 220/380-; 230/400; 240/415 (±2%)			
Frequency range (Hz)	50/60(±0.5%)			
Total harmonic distortion (THDv, rated power, Linear load) (%)	≤2			
Backup switching time (ms)	<10			
Rated output power (off-grid mode) (VA)	5000W	6000	8000	10000
Peak output power (off-grid mode)**	6000VA, 5min / 10000VA, 10s	7200VA, 5min/ 10000VA, 10s	12000VA, 5min	12000VA, 5min
Max. output power (on-grid mode) (VA)	5500	6600	8800	11000
Max. output current (on-grid mode) (A)	8.4	10	13.3	16.7
Efficiency				
Max. efficiency	98.00	98.20	98.40	
Eur efficiency (%)	97.20	97.50	97.90	

Dura-i HV Three Phase Inverter - Technical Specification

Product	Dura-i HV Three Phase Inverters 5-10K			
Model No.	PD-DH3P-5K-G1	PD-DH3P-6K-G1	PD-DH3P-8K-G1	PD-DH3P-10K-G1
Protection & Function				
Parallel ***	Primary - Secondary mode			
Surge protection	Type II, DC and AC			
Overvoltage category	II DC and III AC			
Protective class	Class I			
Grid monitoring	Yes			
DC reverse polarity protection	Yes			
Battery input reverse polarity protection	Yes			
Insulation monitoring	Yes			
AC short-circuit protection	Yes			
Residual current protection	Yes			
DC switch (PV)	Yes			
Overheat protection	Yes			
AFCI	OPT			
General Data				
Topology (PV/battery)	Transformerless			
Degree of protection	IP65			
Dimensions (W x H x D) (mm)	450 x 550 x 185			
Weight (kg)	31			
Mounting method	Wall-mounting bracket			
Operating ambient temperature range (°C)	-25°C - 60°C (Derating above 45°C)			
Allowable relative humidity range (Non-condensing) (%)	0-100			
Cooling method	Natural convection			
Max. operating altitude (m)	4000			
Display	LED			
Communication	RS485/2 x CAN/WLAN			
DI/DO	1 x DI/1 x DO/DRM			
DC connection type	MC4 (PV, Max. 6mm²)			
Battery connection type	Plug and play connector (Battery, Max. 10mm²)			
AC connection type	Plug and play connector			
Warranty	10 years			

* Depending on the connected battery
** Can be reached only if PV and battery power is sufficient
*** Detail refer to inverters parallel configuration in Parallel Guide

The range of output voltage and frequency may vary depending on different grid codes. Specifications are subject to change without advanced notice. Duracell is a registered trademark of Duracell Batteries BV and Duracell U.S. Operations, Inc., used under license. All rights reserved. Manufactured under license and warranty supported by Puredrive Energy Limited in Toddington, Gloucestershire, UK. NEITHER DURACELL BATTERIES BV, DURACELL U.S. OPERATIONS, INC., NOR ITS AFFILIATES ARE INVOLVED IN THE DESIGN, MANUFACTURE, MARKETING OR DISTRIBUTION OF THE PRODUCTS AND THEY DO NOT MAKE ANY (AND HEREBY DISCLAIM ALL) EXPRESS OR IMPLIED WARRANTIES RELATING TO THE PRODUCTS.

