

HD2

High performance, torque vector inverters for AC motors 1.5kW - 500kW (2HP - 670HP)

- Three-phase (480V) up to 500kW (670HP)
- Torque Vector Control
- Integral ModbusRTU / RS485
- Bluetooth & WiFi Communication
- Multiple Expansion Options
- Safe Torque Off (STO) as Standard



HD2 High Performance AC Inverter Drives

The HD2 range of inverters offer unrivalled performance. Designed for controlling asynchronous AC induction motors and permanent magnet synchronous motors, the HD2 torque vector control range are packed full of features as standard that you would usually expect to find on considerably higher specified inverters.

Utilising the most advanced vector control technology, the HD2 range delivers sensorless and closed loop vector control for both asynchronous and synchronous motors giving exceptional speed response and control. HD2 offers unparalleled reliability, environmental adaptability, high precision and stable performance - everything you have come to expect from an IMO inverter drive.

The HD2 also offers some significant advantages to the customer including a huge range of functions with simple operation, industrial communication protocols (ModbusRTU, EtherCAT and Profinet) along with Bluetooth and WiFi communication for programming, and with more communication options in development.



Modbus CANopen

EtherNet/IP™

PROFI BUS

PROFI NET



Options & Ordering Codes

HD2 - 75A - 43 - UL		
Series		
HD2 Inverter Drive	HD2	
Input 480V Three Phase		
Output Power kW (HP)		
1.5kW (2HP)	3.7A	22kW (30HP) 45A
2.2kW (3HP)	5A	30kW (40HP) 60A
4.0kW (5.5HP)	9.5A	37kW (50HP) 75A
5.5kW (7.5HP)	14A	45kW (60HP) 92A
7.5kW (10HP)	18.5A	55kW (75HP) 115A
11kW (15HP)	25A	75kW (100HP) 150A
15kW (20HP)	32A	90kW (125HP) 180A
18.5kW (25HP)	38A	110kW (150HP) 215A

HD2 - 260A - 43		
Series		
HD2 Inverter Drive	HD2	
Input 480V Three Phase		
Output Power kW (HP)		
132kW (175HP)	260A	280kW (375HP) 530A
160kW (215HP)	305A	315kW (420HP) 600A
185kW (250HP)	340A	355kW (475HP) 650A
200kW (270HP)	380A	400kW (535HP) 720A
220kW (300HP)	425A	450kW (600HP) 820A
250kW (335HP)	480A	500kW (670HP) 860A

HD2 - 70A - 23		
Series		
HD2 Inverter Drive	HD2	
Input 230V Three Phase		
Output Power kW (HP)		
0.75kW (1HP)	4.5A	15kW (20HP) 55A
1.5kW (2HP)	7A	18.5kW (25HP) 70A
2.2kW (3HP)	10A	22kW (30HP) 80A
4.0kW (5.5HP)	16A	30kW (40HP) 110A
5.5kW (7.5HP)	20A	37kW (50HP) 130A
7.5kW (10HP)	30A	45kW (60HP) 160A
11kW (15HP)	42A	55kW (75HP) 200A

HD2 Ratings & Specifications

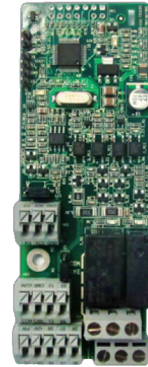
Model	HD Mode (150% Overload - 1 min)			ND Mode (120% Overload - 1 min)		
	Rated Power kW (HP)	Rated Input Current (A)	Rated Output Current (A)	Rated Power kW (HP)	Rated Input Current (A)	Rated Output Current (A)
Three Phase 480V	HD2-3.7A-43-UL	1.5 (2)	5	3.7	-	-
	HD2-5A-43-UL	2.2 (3)	5.8	5	-	-
	HD2-9.5A-43-UL	4 (5.5)	13.5	9.5	5.5 (7.5)	19.5
	HD2-14A-43-UL	5.5 (7.5)	19.5	14	7.5 (10)	25
	HD2-18.5A-43-UL	7.5 (10)	25	18.5	11 (15)	32
	HD2-25A-43-UL	11 (15)	32	25	15 (20)	40
	HD2-32A-43-UL	15 (20)	40	32	18.5 (25)	47
	HD2-38A-43-UL	18.5 (25)	47	38	22 (30)	56
	HD2-45A-43-UL	22 (30)	56	45	30 (40)	70
	HD2-60A-43-UL	30 (40)	70	60	37 (50)	80
	HD2-75A-43-UL	37 (50)	80	75	45 (60)	94
	HD2-92A-43-UL	45 (60)	94	92	55 (75)	128
	HD2-115A-43-UL	55 (75)	128	115	-	-
	HD2-150A-43-UL	75 (100)	160	150	90 (125)	190
	HD2-180A-43-UL	90 (125)	190	180	110 (150)	225
	HD2-215A-43-UL	110 (150)	225	215	-	-
	HD2-260A-43	132 (175)	265	260	160 (215)	310
	HD2-305A-43	160 (215)	310	305	185 (250)	345
	HD2-340A-43	185 (250)	345	340	200 (270)	385
	HD2-380A-43	200 (270)	385	380	220 (300)	430
	HD2-425A-43	220 (300)	430	425	250 (335)	485
	HD2-480A-43	250 (335)	485	480	280 (375)	545
	HD2-530A-43	280 (375)	545	530	315 (420)	610
	HD2-600A-43	315 (420)	610	600	350 (470)	625
	HD2-650A-43	350 (470)	625	650	400 (535)	715
	HD2-720A-43	400 (535)	715	720	-	-
	HD2-860A-43	500 (670)	890	860	-	-

Model	Rated Power kW (HP)	Rated Input Current (A)	Rated Output Current (A)
Three Phase 230V	HD2-4.5A-23	0.75 (1)	5
	HD2-7A-23	1.5 (2)	7.7
	HD2-10A-23	2.2 (3)	11
	HD2-16A-23	4 (5.5)	17
	HD2-20A-23	5.5 (7.5)	21
	HD2-30A-23	7.5 (10)	31
	HD2-42A-23	11 (15)	43
	HD2-55A-23	15 (20)	56
	HD2-70A-23	18.5 (25)	71
	HD2-80A-23	22 (30)	81
	HD2-110A-23	30 (40)	112
	HD2-130A-23	37 (50)	132
	HD2-160A-23	45 (60)	163
	HD2-200A-23	55 (75)	200

Optional Expansion Cards

Expansion Card Type	Part Number	Part Description
I/O Card	HD2-E-IO	IO Expansion Card (4DI, 1 DO, 1 AI, 1 AO, 2RO)
	HD2-E-IO2	IO Expansion Card (1 PT100, 1 PT1000, 4 DI, 2 RO)
PLC Card	HD2-E-PLC	Programmable Expansion Card (CODESYS)
Communication Card	HD2-E-BTP	Bluetooth Communication Card (Internal Antenna)
	HD2-E-BTM	Bluetooth Communication Card (External Antenna)
	HD2-E-ENET	Ethernet Communication Card
	HD2-E-EIP	Ethernet/IP Communication Card
	HD2-E-ECAT	EtherCAT Communication Card
	HD2-E-WFP	WiFi Communication Card (Internal Antenna)
	HD2-E-WFM	WiFi Communication Card (External Antenna)
	HD2-E-COP	CANopen Communication Card
	HD2-E-CAN	CAN Master-Slave Communication Card
	HD2-E-PDP	PROFIBUS-DP Communication Card
	HD2-E-PRF	PROFINET Communication Card
	HD2-E-MTCP	Modbus TCP Communication Card
PG Card	HD2-E-PGIM	Multi-Function Incremental PG Card
	HD2-E-PGIM-24	24V Multi-Function Incremental PG Card
	HD2-E-PGI	5V Differential PG Card
	HD2-E-PGR	Rotary Transformer PG Card
Power Supply Card	HD2-E-APS	24V DC Aux. Power Supply Card
Accessories	HD2-KP	LCD Multi-function keypad
	HD2-KP-MB	Keypad mounting bracket

HD2-E-IO



HD2-E-PDP



HD2-E-WFP



HD2-E-PGI



Accessories

Inverter	Input Reactor	DC Reactor	Output Reactor	Braking unit
HD2-3.7A-43-UL	ACLC-1.5-4	DCLC-004-4	OCLC-1.5-4	Integral
HD2-5A-43-UL	ACLC-2.2-4	DCLC-7R5-4	OCLC-2.2-4	Integral
HD2-9.5A-43-UL	ACLC-4.0-4	DCLC-7R5-4	OCLC-4.0-4	Integral
HD2-14A-43-UL	ACLC-5.5-4	DCLC-015-4	OCLC-5.5-4	Integral
HD2-18.5A-43-UL	ACLC-7.5-4	DCLC-015-4	OCLC-7.5-4	Integral
HD2-25A-43-UL	ACLC-11-4	DCLC-018-4	OCLC-11-4	Integral
HD2-32A-43-UL	ACLC-15-4	DCLC-022-4	OCLC-15-4	Integral
HD2-38A-43-UL	ACLC-18-4	DCLC-030-4	OCLC-18-4	Integral
HD2-45A-43-UL	ACLC-22-4	DCLC-037-4	OCLC-22-4	Integral
HD2-60A-43-UL	ACLC-37-4	DCLC-045-4	OCLC-37-4	Integral
HD2-75A-43-UL	ACLC-37-4	DCLC-055-4	OCLC-37-4	Integral
HD2-92A-43-UL	ACLC-45-4	DCLC-055-4	OCLC-45-4	DBU45/75-4
HD2-115A-43-UL	ACLC-55-4	DCLC-075-4	OCLC-55-4	DBU45/75-4
HD2-150A-43-UL	ACLC-75-4	DCLC-090-4	OCLC-75-4	DBU45/75-4
HD2-180A-43-UL	ACLC-110-4	DCLC-132-4	OCLC-110-4	DBU90/110-4
HD2-215A-43-UL	ACLC-110-4	DCLC-132-4	OCLC-110-4	DBU90/110-4
HD2-260A-43	ACLC-160-4	DCLC-132-4	OCLC-200-4	DBU132-4
HD2-305A-43	ACLC-160-4	DCLC-160-4	OCLC-200-4	DBU160/200-4
HD2-340A-43	ACLC-200-4	DCLC-200-4	OCLC-200-4	DBU160/200-4
HD2-380A-43	ACLC-200-4	DCLC-220-4	OCLC-200-4	DBU160/200-4
HD2-425A-43	Integral	DCLC-280-4	OCLC-280-4	DBU220/250-4
HD2-480A-43	Integral	DCLC-280-4	OCLC-280-4	DBU220/250-4
HD2-530A-43	Integral	DCLC-280-4	OCLC-280-4	DBU160/200-4 (x2)
HD2-600A-43	Integral	DCLC-315-4	OCLC-350-4	DBU160/200-4 (x2)
HD2-650A-43	Integral	DCLC-400-4	OCLC-350-4	DBU160/200-4 (x2)
HD2-720A-43	Integral	DCLC-400-4	OCLC-400-4	DBU160/200-4 (x2)
HD2-820A-43	Integral	DCLC-500-4	OCLC-500-4	DBU160/200-4 (x2)
HD2-860A-43	Integral	DCLC-500-4	OCLC-500-4	DBU220/250-4 (x2)