

# 3 PHASE HYBRID/AC INVERTER



## TECHNICAL SPECIFICATIONS

Model	H3-5.0-E AC3-5.0-E	H3-6.0-E AC3-6.0-E	H3-8.0-E AC3-8.0-E	H3-10.0-E AC3-10.0-E	H3-12.0-E AC3-12.0-E
<b>INPUT PV (For hybrid only)</b>					
Max. recommended DC power[W]	7500	9000	10400	13000	15000
Max. DC voltage [V]	1000				
Nominal DC operating voltage [V]	720				
Max. input current (input A/input B)[A]	14A/14A	14A/14A	26A/14A	26A/14A	26A/14A
Max. short circuit current[A]	16A/16A	16A/16A	32A/16A	32A/16A	32A/16A
Start-Up voltage [V]	160V				
MPPT voltage range [V]	160-950				
MPPT voltage range (Full load) [Vdc]	210-800	250-800	240-800	280-800	320-800
No. of MPPT trackers	2				
Strings per MPPT tracker	1+1	1+1	2+1	2+1	2+1
<b>OUTPUT AC</b>					
Nominal AC power [VA]	5000	6000	8000	10000	12000
Max. apparent AC power [VA]	5500	6600	8800	11000	13200
Rated grid voltage (AC voltage range) [V]	400V/230VAC;380V/220VAC,3L/N/PE				
Rated grid Frequency [Hz]	50/60, ±5				
Max. AC current [A]	8.0	9.6	12.8	16.0	19.2
Displacement power factor	1 (Adjustable from 0.8 leading to 0.8 lagging)				
Total harmonic distortion (THD, rated power)	<3%				
Unbalance output	Yes				
Parallel operation	Yes @maxDCPCS				
Max. output fault current [A]	150A@0.5ms				
Max. output overcurrent protection [A]	45				
<b>BATTERY</b>					
Battery Type	Lithium battery				
Battery voltage [V]	180-600				
Full AC load Battery voltage [V]	205	250	330	410	480
Max. Charge/ discharge current [A]	26.0				
Communication interface	CAN/RS485				
<b>INPUT AC</b>					
Max. AC power [VA]	10000	12000	16000	16000	16000
Max. AC current [A]	15.2	18.2	24.2	24.2	24.2
Rated grid voltage (AC voltage range) [V]	400V/230VAC;380V/220VAC,3L/N/PE				
Rated grid frequency [Hz]	50/60, ±5Hz				
Power factor	1 (Adjustable from 0.8 leading to 0.8 lagging)				
AC Inrush current [A]	15A@0.5ms				
<b>EPS OUTPUT</b>					
Nominal AC power [W]	5000	6000	8000	10000	12000
Max. AC power (60s) [VA]	10000	12000	14000	15000	15000
EPS rated voltage [V], Frequency [Hz]	400V/230VAC;380V/220VAC,3L/N/PE, 50/60				
EPS Max current [A](Per phase)	15.2	18.2	21.2	22.7	22.7
Power factor	1 (Adjustable from 0.8 leading to 0.8 lagging)				
Switch time	<20ms				
THDV	<3% @rated power				
<b>EFFICIENCY</b>					
MPPT efficiency	99.90%	99.90%	99.90%	99.90%	99.90%
Max. efficiency	97.80%	97.80%	98.00%	98.00%	98.00%
Euro-efficiency	97.20%	97.20%	97.30%	97.30%	97.30%
<b>PROTECTION</b>					
PV Reverse polarity protection	YES				
Battery reverse protection	YES				
Anti-islanding protection	YES				
Output short protection	YES				
Leakage current protection	YES				
Insulation resistor Detection	YES				
Over voltage category	III (AC side), II (DC side)				
Over-current protection / Over-temperature protection	YES				
AC/DC surge protection	Type II				
AFCI protection	Optional				
DC SWITCH	YES				
String monitoring function	optional				
<b>ENVIRONMENT LIMIT</b>					
Dimension (W/H/D) [mm]	449*519*198				
Net weight [kg]	28				
Installation	wall-mounted				
Operating temperature range [°C]	-25 to +60°C (derating at 45°C)				
Storage temperature	-40 to +70°C				
Storage/Operation relative humidity	0%-95% (without condensation)				
Altitude [m]	<2000				
Protective class	I				
Ingress protection	IP65 (for outdoor use)				
Standby consumption [W]	200W for hot standby, 15W for cold standby				
Cooling	Natural FAN cooling				
Inverter topology	Non-isolated				
Communication interface	Ethernet, Meter, WIFI, 4G (optional), DRM, USB, BMS (CAN & RS485), RS485				
LCD display	Backlight 16*4 character				
warranty	10 years				