



HYD 6000-EP

Single-Phase Energy storage integrated inverter



Outdoor IP65 design



Compatible with on grid and off grid



A variety of work modes are optional



EPS function, switching time is less than 10ms



Built-in zero export function



Flexible configuration of lead acid or lithium battery



Integrated fanless self-recognition heat dissipation design

Datasheet

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Battery Parameters

Battery Type	Lithium-ion, Lead-acid
Nominal battery voltage	48V
Battery voltage range	42-58V
Battery Capacity	50-2000Ah
Maximum Charging / Discharging Power	5000W
Maximum Charging Current	100A (Programmable)
Maximum Discharging Current	100A (Programmable)
Charging curve(Lithium-ion)	BMS
Charging curve(Lead-acid)	3-Stage adaptive with maintenance
Depth of discharge	Lithium-ion: 0-90% DOD adjustable, Lead-acid:0-50% DOD adjustable

Input DC(PV side)

Recommended Max. PV input power	7980Wp
Max DC power for single MPPT	3500W
Max. input voltage	600V
Start-up voltage	120V
Nominal DC Voltage	360V
MPPT operating voltage range	90-580V
Full power MPPT voltage range	300V-520V
MPPT number	2
The max DC input current	12A/12A
The max DC input short current	15A/15A

Output AC(Grid side)

Rated Power	6000W
Max. Output Power	6000VA
Nominal Grid Voltage	L/N/PE, 220, 230, 240
Operation phase	Single (L-N-PE)
Max. Input / Output current	50.0A/27.3A
AC voltage Range	180V~276V (According to local standard)
Grid Frequency range	44-55Hz/54-66Hz (According to local standard)
THD	< 3%
Power factor	1 default (+/-0.8 adjustable)

Output AC(Emergency Power Supply)

EPS rated power	5000VA
Operation phase	Single (L-N-PE)
EPS rated voltage, Frequency	230V, 50/60Hz
EPS rated current	24.5A
Peak Output Apparent Power	6900VA, 10s
THD	180-276Vac (According to local standard)
Switch time	10ms default

Efficiency

MPPT efficiency	99.9%
Max efficiency of solar Inverter	97.6%
European efficiency of solar Inverter	97.2%
Max. Charging efficiency of battery	94.6%
Max. DisCharging efficiency of battery	94.6%

Protection

PV reverse polarity protection	Yes
PV insulation detection	Yes
Ground fault monitoring	Yes
Over current protection	Yes
Over voltage protection	Yes
Battery soft start protection	Yes
SPD protection	III

General Data

Ambient temperature range	-30°C~ +60°C (Above 45°C Derating)
Standby Losses	< 10W
Topology	High frequency insulation (for bat)
DC-Switch	Yes
Degree Of Protection	IP65
Allowable Relative Humidity Range	0~100%
Communication	RS485, Wifi/Ethernet/GPRS, SD, CAN2.0
Protective class	Class I
Max. Operating Altitude	2000m
Current Sensor Connection	External
Noise	< 25dB
Weight	23.5kg
Cooling	Natural
Dimension (W*H*D)	566*394*173 mm
Display	LCD display
Warranty	5 Years or more

Standard

EMC	EN 61000-6-2, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN 61000-3-11, EN 61000-3-12
Safety standards	IEC62109-1/2, IEC62040-1, IEC62116, IEC61727, IEC-61683, IEC60068(1, 2, 14, 30)
Grid standards	AS/NZS 4777, VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21, EN50549, G83/G59/G98/G99, UTE C15-712-1, UNE 206 007-1