



ALL-IN-ONE  
**FLEXIBLE INVERTER**  
HYBRID SOLUTION

**SHOWROOM AND R&D**

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QTY.OF BATTERIES	2	3	6
CHARGE TEMPERATURE RANGE	0~53°C		
DISCHARGE TEMPERATURE RANGE	-10~53°C		
NOMINAL VOLTAGE(V)	192	288	576
BATTERY TOTAL ENERGY (WH)	8.06	12.09	24.18
DIMENSION(W*H*D) (MM)	630*1000*178(±3MM)	630*1370*178(±3MM)	TWO BLOCKS EACH 630*1370*178(±3MM)
WEIGHT (KG)	92KG	131KG	TWO BLOCKS EACH 131 KG

# SPECIFICATION

## THREE PHASE MODEL

## LIT-PHT10K-H20

INVERTER



LITHV-T10K

## BATTERY INPUT DATA

BATTERY TYPE	LI-ION
BATTERY VOLTAGE RANGE	80V-800V
MAX. CHARGING/DISCHARGING CURRENT	60A/60A
RATED CHARGING /DISCHARGING CURRENT	50A/50A
CHARGING STRATEGY FOR LI-ION BATTERY	SELF-ADAPTION TO BMS
COMMUNICATIONS	RS485, CAN

## PV STRING DC INPUT DATA

RECOMMENDED MAX. PV POWER	20KW
MAX. INPUT VOLTAGE	1000V
START-UP VOLTAGE/MIN. INPUT DC OPERATION VOLTAGE	50 V/40 V
MPPT VOLTAGE RANGE	100V~900V
MAX. INPUT CURRENT	20A/20A/40A
MAX. SHORT CIRCUIT CURRENT	30A/30A/60A
MPPT NUMBER	3
STRINGS NUMBER PER MPPT	1/1/2

## AC OUTPUT DATA (ON-GRID SIDE)

RATED OUTPUT POWER	10KW
RATED /MAX. APPARENT OUTPUT POWER	10KVA/10KVA
RATED GRID OUTPUT CURRENT	14.5A
MAX. OUTPUT CURRENT	14.5A
OPERATION PHASE	3P
RATED GRID VOLTAGE (3P/N/PE)	220V/380V, 230V/400V, 240V/415, 312~520
RATED GRID FREQUENCY	50HZ/60HZ
POWER FACTOR	>0.99 (0.8 LEADING ~ 0.8 LAGGING)
THDI	<3%

## AC OUTPUT DATA (BACK-UP/UPS SIDE)

RATED OUTPUT POWER	10KW
PEAK APPARENT OUTPUT POWER FOR 60S	20KW
BACK-UP/UPS SWITCH TIME	<10 MS
RATED OUTPUT VOLTAGE	220V/380V, 230V/400V, 240V/415, 312~520
RATED FREQUENCY	50HZ/60HZ
RATED OUTPUT CURRENT	14.5A
THDV(@LINEAR LOAD)	<2%

## EFFICIENCY

MAX. EFFICIENCY	98.80%
EU EFFICIENCY	98.30%

## PROTECTION

GROUND FAULT MONITORING	YES
OUTPUT OVER VOLTAGE PROTECTION	YES
ANTI-ISLANDING PROTECTION	YES
INTEGRATED AFCI	OPTIONAL
DC REVERSE-POLARITY PROTECTION	YES
AC SHORT CIRCUIT PROTECTION	YES
LEAKAGE CURRENT PROTECTION	YES
SURGE PROTECTION	YES
DC SWITCH(SOLAR)	YES
BATTERY INPUT REVERSE POLARITY	YES
OVER VOLTAGE CATEGORY	AC CLASS1III/PV CLASS11

## GENERAL DATA

DIMENSIONS (W*H*D)	507*522*194 MM
SHELL MATERIAL	ALUMINUM ALLOY
WEIGHT	25 KG
OPERATING AMBIENT TEMPERATURE RANGE	-25~60 °C (>45 °C DERATING)
TOPOLOGY	TRANSFORMERLESS
INGRESS PROTECTION	IP66
COOLING CONCEPT	SMART FAN & NATURAL CONVECTION
MAX. OPERATION ALTITUDE	3000 M
GRID CONNECTION STANDARD	AS/NZS4777:2020, EN50549-10:2022, G98:2021, G99:2021, NC RFG, ABNT NBR 16150, VDE-AR-N 4105, CEI0-21, CEI0-16, RD1699, NA/EEA, C10:2019, PPDS:2021, TOR+R25, IEC61683, IEC61727&62161
SAFETY/EMC STANDARD	IEC-62109-1/-2, IEC-61000-6-1/-2/-3, NB/T32004
DC CONNECTION	MC4/D4
COMMUNICATIONS	WIFI, 4G, GPRS, BLUETOOTH, RS485, CAN

## HIGH VOLTAGE BOX

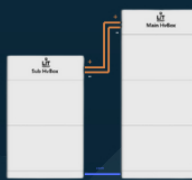
DC VOLTAGE OPERATING RANGE	80~1000V DC
OPERATION TEMPERATURE	-20~85°C

## BATTERY DATA

BATTERY TYPE	LFP
NOMINAL CAPACITY (AH)	42
RATED CHARGE/DISCHARGE CURRENT	0.5C/0.5C
MAX CHARGE/DISCHARGE CURRENT	1C/1C
DEPTH OF DISCHARGE	90%
CYCLE LIFE	6000
LIFETIME	10 YEARS
ENCLOSURE INGRESS PROTECTION	IP66
PROTECTIVE CLASS	1
CERTIFICATION & SAFETY STANDARD	UN38.3/MSDS/IEC62619/EN61000-6-1-3

## SYSTEM PARAMETER

### H20

BATTERY SCHEMATIC	
QTY.OF BATTERIES	3 CONNECTED WITH 2
CHARGE TEMPERATURE RANGE	0~53°C
DISCHARGE TEMPERATURE RANGE	-10~53°C
NOMINAL VOLTAGE(V)	480
BATTERY TOTAL ENERGY (KWH)	20.15
DIMENSION(W*H*D) (MM)	630*1000 *178(±3MM) 630*1370 *178(±3MM)
WEIGHT (KG)	92KG+131KG

# HYBRID SOLUTION

Graphical Representation

