

TPLV 24-34

IGNACORE

Energy Storage System



Flexible Adaptability

10-unit parallel, On/Off-grid, Generator input integrated, 30A high current PV input



Safe and Secure

Battery terminal temperature monitoring, IP65 protection, Type II AC/DC SPDs, optional AFCI protection



Efficient Management

Smart load management via cloud platform & LCD screen, UPS-level switchover <6 ms (single unit)



High Performance

160% PV oversizing, 110% AC output, 200% EPS peak power (10s), 290A high-current charge/discharge, 80V low start-up voltage

Model	TPLV 24-34
PV Input	
Recommended Max.input power(kW)	48
Start-up voltage(V)	180
Max.DC input voltage(V)	1000
MPPT voltage range(V)	150 ~ 950
No.of MPPT trackers	2
No.of DC inputs per MPPT	2 + 2
Max.input current(A)	4*20
Max.short-circuit current(A)	4*30
Inverter Input / Output (GRID)	
Rated output power(kW)	24
Rated AC voltage	220 / 380 , 230 / 400 , 3 L / N / PE
Rated AC frequency(Hz)	50/60
Maximum output current(A)	60
Continuous output current(A)	35
Power factor	-0.8 lagging ~ 0.8 leading
AC Output (EPS)	
Rated output Active power(kW)	24
Ratred output Apparent power (KW)	24
Max.output current(A)	35
UPS switching time(ms)	< 20
Rated output voltage	220 / 380 , 230 / 400 , 3 L / N / PE
Rated output frequency(Hz)	50/60
Overload Capacity (Off Grid)	110%600s / 120%300s / 150%60s / 200%10s

Efficiency	
MPPT Efficiency(%)	99.9
Euro-efficiency(%)	97.2
Max. Efficiency	98
Protection & Feature	
Insulation Monitoring	Yes
Residual Current Monitoring	Yes
Parallel Function	Yes
Certifications	IEC 62109-1/2, IEC 62477-1, IEC 61000-6-1, IEC 61000-6-3, EN 50549-1&-10, NRS 097-2-1, IEC 61727, IEC 61683, IEC 62116
Other Protection	Output over voltage, Output over current, Short circuit, Surge, Temperature, Anti-Islanding

Battery	
Total Energy	33.78 kWh
Max. Discharge Power	24 kW
Rated Capacity	330Ahx2 = 660Ah
Voltage Range	48 – 56 Vdc
Nominal Voltage	51.2 Vdc
Operating Condition	Indoor
Charge Operating Temperature	-10 to 70 °C
Discharge Operating Temperature	-20 to 70 °C
IP Rating	IP20
Protective Class	I
Relative Humidity (RH)	0 – 95% RH (non-condensing)
Cooling Type	Ambient cooling
Case Material	Metal
Installation	Floor Standing & Stack

Cycle	6000 Cycles @ 80% DoD
Protection Mode	Triple Hardware Protection
Fire Suppression	Integrated condensed aerosol

General Parameter	
Dimensions [W×H×D(mm)]	Inverter: 448×660×265 Battery: (450×674×234)×2
Weight(kg)	Inverter: 48 Battery: 116x2
Protection degree	IP66
Operating Temperature Range(°C)	-25 ~ +60(>45 derating)
Relative Humidity(%)	0 ~ 95 (No condensation)
Operating Altitude(m)	4000
Cooling	Intelligent Redundant Fan Cooling
Noise Level(dB)	≤ 75
Display	LCD
Communication	RS485/CAN/WIFI /DRM (Optional: Bluetooth/LAN/Meter)

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