

Single Phase Hybrid Inverter

Ultra Pro 5kw-48V Dual MPPT



LCD Screen, IP20 protection degree



Dual Output Inverter for Normal Load and Smart Load



DC couple and AC couple to retrofit existing solar system



Max. 16 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel



Max. charging/discharging current of 140A



Support storing energy from diesel generator



2 Years Warranty

INPUT (PV DC)		ULTRA PRO 5KW-48V
Max. PV array power(W)		9000 (4500/4500)
Rated PV input voltage(V)		320
Number of independent MPPT inputs		2
PV input voltage range(V)		100 ~ 480
MPPT voltage range(V)		120 ~ 385
Start-up voltage(V)		100
Max. PV input current per MPPT(A)		18/18
Max. PV short-circuit current input per MPPT(A)		25/25
Battery		
Compatible battery type		Lithium-ion/Lead-Acid
Rated battery voltage(V)		48
Battery voltage range(V)		38.4 ~ 60
Max. charging/discharging current(A)		140
Max. discharging/discharging power(W)		6000
Recomand capacity of battery per inverter		>200AH
Force wake up battery from PV function		YES
Force wake up battery from Grid function		YES
Grid		
Rated AC voltage(V)		230
Rated AC frequency(Hz)		50/60
Rated AC output current(A)		27
Rated AC output power(W)		6000
Max. AC intput current(A)		40
Max. AC intput power(W)		9000
Power Factor		0.99
THDI		<5 %
Rated AC current of BYPASS relays(A)		40.00
UPS		
Rated output power(W)		6000
Rated output voltage(V)		230
Rated output current(A)		27
Rated output frequency(Hz)		50/60
Surge power, duration		2Pn, <2S
Switching time		<15ms@Single/ <30ms@Parallel
Wave form		Sine wave
THDV		0.03
Efficiency		
Max. MPPT efficiency		0.99
Max. efficiency		0.93
EU efficiency		/
Max. charging efficiency		0.93
Max. discharging efficiency		0.93
Protection		
Over current/voltage protection		YES
AC Short-circuit current protection		YES
Grid monitoring		YES
AC Surge protection Type III		YES
Battery reverse polarity protection		YES
General		
Dimensions(W*H*D)		303*505*135mm/11.9*19.9*5.3inch
Weight		14.5kg/32lbs
Ingress protection rating		IP20
Operating environment temperature range		0 ~ 50°C
Storage temperature range		-15 ~ 60°C
Relative humidity		5 % ~ 95 %
Display & Communication interface		LCD+LED, RS485/Wi-Fi/CAN
Warranty		2 years
Cooling method		FAN
Topology		Transformer-less
Altitude		<2000m
Noise emission(typical)		<50dB
Standards & Certification		
IEC 62109-1, IEC 62109-2, IEC 61000		