

# DEFENDER PRO SERIES



Online double-conversion  
 DSP technology guarantees high reliability  
 True galvanic isolation transformer design  
 Control designed to withstand all kinds of loads  
 Independent ventilation enhance durable operation under harsh environment  
 Adjustable battery numbers  
 Accept dual-mains input  
 Parallel operation with up to 8 units (option)  
 Variety of communication options available  
 Reverse phase sequence operation and No neutral operation

MODEL	PRO33-10-20K	PRO33-30-40K	PRO33-60-80K	PRO33-100-120K	PRO33-160-200K
UPS(W*D*H)mm	402*660*880	412*813*1121	505*1060*1321	555*1060*1421	1043*1160*1748
Pack(W*D*H)mm	505*800*1030	515*926*1270	603*1190*1486	653*1190*1586	1303*1180*2076
UPS weight (kg)	153/168/194	223/256	382/434	535/580	1120/1320
Temperature	0°C-40°C(working environment)				
Relative humidity	0~95%, non condensing				
Noise	<60db at 1.5m from surface of unit				
Altitude	100m(height rises every 100m, power decreases 1%, maximum height is 4000m)				
Efficiency	>92%				
Transfer time	0ms				
Technology	True double-conversion online technology, IGBT inverter				
<b>INPUT</b>					
Voltage	3*220/380vac±25%				
Frequency	50Hz±15%				
Conductors	Three phrases+N+E				
<b>OUTPUT</b>					
Voltage (selectable)	3*220/380vac±1%(More voltage can be selected)				
Frequency	50±0.1Hz				

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Waveform	Pure sine wave generated by high frequency PWM inverter
Harmonic Distortion	<2% Linear load <5% Nonlinear load
Crest Factor	3:1
Power Factor	$\geq 0.9$
Voltage regulation	Load balance: $\pm 1\%$
Overload capacity	125% for 12 minutes/ 150% for one minute to bypass
Conductors	Tree phrases+N+E
<b>Battery</b>	
Type	Maintenance-free sealed lead-acid battery, 12V*30-32pcs settable
Full load autonomy	3 to 15 minutes extended-range capability
Typical recharge time	4~8 hours, 90%
Battery handle	selftest. Transfer Point Adjustable battery and alarm setting
Battery protection	Fuse protection, battery switch, temperature compensation, regular inspection, software protection, overvoltage tripping.
Rectification	Software protection, input switch, over current protection, temperature protection
<b>Protection</b>	
Hardware protections	Breaker for input, output, battery and bypass. Fast acting fuses in DC, fans, redundant power supplies, temperature sensors, on-o switch and audible alarms.
Bypass	Static solid state, automatic and manual oration without interruption for maintenance. External Bypass(optional)
Emergency switch	Remote and/or local EPO
<b>Supervisor control and communication</b>	
Frontal panel	Interactive LCD display(Touchscreen)
Alarms	Audible and visual alarm for abnormal conditions
Communications	RS232, SNMP-RJ45, RS module for mobile network remote monitoring

**NOTE: Any subject to change is without notice in advance.**