



LIND ELECTRONICS, INC.

POWER SPECIALISTS FOR MOBILE COMPUTING

LIND RUGGED ISOLATED DC/DC POWER ADAPTER (12 to 60 VDC INPUT)

PCPE-LNDFHWR

compatible with CF-20, FZ-G1, FZ-M1,
FZ-A3, CF-33, FZ-G2*

*= when in a docking station



FEATURES

- Electrical Isolation – prevents ground loops
- Rugged aluminum housing
- Flanged end plates for easy mounting
- Low Input Voltage Disconnect
- High Input Voltage Disconnect
- Output Short Circuit Protection
- Output Over-Current Protection
- Internal Over-Temperature Protection
- Automatic Restart (10 seconds after fault removal)
- LED Indicator (Output Power Present)
- LED flash rate identifies fault
- Reverse Polarity Disconnect
- 1-year warranty

TECHNICAL

- INPUT VOLTAGE RANGE: 12 to 60 VDC
- OUTPUT VOLTAGE: 16 VDC
- OUTPUT POWER: 80 Watts
- ISOLATION: 500 VDC Input/Output Isolated (output tied to chassis)
- OPERATING TEMPERATURE: -20° to +40° C
- STORAGE TEMPERATURE: -40° to +85° C
- WEIGHT: appr. 570 gram (excluding cables)
- DIMENSIONS: appr. 240 x 75 x 30 mm
- MOUNTING HOLE SIZE: 5 mm

This Lind Power Adapter enables the user to run & charge a Toughbook from any 12-60 VDC power source by providing a regulated DC output. The adapter is specifically designed for the use in forklift, warehousing and railway applications. Voltage spikes and power surges occurring on the input voltage line are filtered by the adapter, eliminating potential damage to the adapter and Toughbook. Electrical isolation between input and output also prevents ground loops.

The adapter's electronics are protected in a rugged aluminum housing, filled and sealed with epoxy potting material, and thus protected from potential damage by shock, vibration, water and dust. Efficient power conversion circuits with extensive protection features provide reliable and continuous power to your Toughbook. Combined with its rugged design, this Lind Power Adapter is ideally suited for the use in the most demanding environments.



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Characteristic	Min	Max	Units	Conditions
Electrical				
Output Voltage		16,5	Vdc	Vin=12-60VDC, IL=0A
- No Load				
- Full Load	14,5		Vdc	Vin=12-60VDC, IL=5.0A
Load Current	0	5,0	A	Vin=12-60VDC
Output Power		80	W	Vin=12-60VDC
Input Voltage Range	12,0	60,0	Vdc	IL=0-5.0A
Input Current		0,3	A	Vin=12-60VDC
- No Load				
- Full Load		8,3	A	Vin=12.0VDC
- Full Load		1,6	A	Vin=60.0VDC
Efficiency	80		%	Vin=12-60VDC, IL=5.0A, at Adapter
Ripple/Noise		250	mVp-p	Vin=12-60VDC, IL=5.0A, 20MHz BW <i>Note: 47µf//.1µf across output</i>
Start-up Time	0,5	1,5	S	Vin=12-60VDC, IL=0-5.0A
Protection				
Input Fuse		15	A	Replaceable 3AG, input cable
Input Undervoltage Shutdown	9,5	10,5	Vdc	IL=5.0A, 10 second delay
Input Overvoltage Shutdown	61	65	Vdc	IL=0-5.0A
Output Overcurrent Shutdown	5,5	7	A	Vin=12-60VDC
Thermal Protection		Yes		Shutdown, Auto restart once cooled
Reverse Input Protection		Yes		Shutdown
Isolation		500	Vdc	Input to Output (Output tied to Chassis)
Shutdown Restart Time	9	11	S	Vin=12-60VDC, IL=0-5.0A
Environmental				
Ambient temperature				
-Operating	-20	40	°C	
-Storage	-40	85	°C	
Relative Humidity		95	%	No condensation
Mechanical				
Body Dimensions	9.3 x 3.0 x 1.15		Inches	LxWxH
Adapter Weight		25	Ounces	
Agency Approvals				CE, RoHS, WEEE