FC power generation system (FC Engine Xpress-1) catalog

**FC Engine Xpress-1** Spec. (for NHK Nagoya Robot Camera)

1. AC100[V]  3[A] (300[W])
2. AC24[V]  12.5[A] (300[W])
3. AC12[V]  25[A] ( 300[W])
4. Simple Waterproof (Usable Outdoor)
5. CO₂ Zero Emission.
6. Continuous operation 720hr/30day) Maintenance Free.
7. Continuous Total Generation Capacity 1 4 3 0Wh/day
8. Fuel consumption (W[Wh])/Output

**FC Engine Xpress-1** Monitoring Network System Diagram

1. If a malfunction occurs on monitoring target, Inform to system administrator cell-phone by E-mail.
2. Voltage fall detect at 100[V]→Yellow luminescence & Alert Buzzer
3. Voltage fall detect at FC power (DC24[V])→Red luminescence & Alert Buzzer
4. Pressure fall detect at H₂ Pressure →Green luminescence & Alert Buzzer
5. Over 24[h] by 50[Wh]/Output
6. Can provide continuous over 3[h] by 300 [Wh]/output

**FC Engine Xpress-1** Parts Name

1. FC Output Ammeter(A)
2. FC Output Voltmeter(V)
3. FC Controller Ammeter
4. FC Controller Voltmeter
5. AC200V Load Ammeter (A)
6. AC200V Load Voltmeter (V)
7. AC Load Switch
8. DC24V Load Switch
9. Monitoring System Warning Light
10. Out of hydrogen Detect Signal Terminal
11. Monitoring System Main Terminal
12. FC Control Panel (ON/OFF Switch
13. Generate Bist Switch
14. FC SOG Switch
15. FC Controller Fuse (C/F)
16. FC Output ON/OFF Switch
17. Monitoring System ON/OFF Switch
18. Power Totalizer, Using a power meter
19. DC24V Alarm Check Terminal
20. Hydrogen Pressure regulation Valve
21. Battery Charge Discharge Monitoring
22. Monitoring System Main Terminal
23. FC Engine Xpress-1 (ON/OFF Switch
24. AC200V,plus mark on Terminal (R/S230V-GGSE Connect)
25. FC Engine Xpress-1 (ON/OFF Switch
26. FC Engine Xpress-1 (ON/OFF Switch
27. FC Engine Xpress-1 (ON/OFF Switch
28. FC Engine Xpress-1 (ON/OFF Switch
29. FC Engine Xpress-1 (ON/OFF Switch
30. FC Engine Xpress-1 (ON/OFF Switch
31. FC Engine Xpress-1 (ON/OFF Switch
32. FC Engine Xpress-1 (ON/OFF Switch
33. FC Engine Xpress-1 (ON/OFF Switch
34. FC Engine Xpress-1 (ON/OFF Switch

**FC Engine Xpress-1** Monitoring System Overview

- Monitoring Network System Features
  - High secure networking by VPN (Virtual Private Network)
  - Check the FC engine status on URL (http://nnindex.com/xpress-1/) by WEB server.
  - Even in the Internet environment is not yet mature, so the unit is equipped with mobile communication capabilities (WiMAX etc.) FC Engine status data can be sent to the monitoring server.
FC power generation system [FC Engine Xpress series] monitoring network system detailed chart

FC 発電システム [FC エンジン Xpress シリーズ] モニタリングネットワークシステム詳細図

A more detailed Figure → here

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